



Patin Docket Preview

P1618P2C3.txt

Sequence Listing

<110> Chen, Jian
Goddard, Audrey
Gurney, Austin L.
Hillan, Kenneth
Pennica, Diane
Wood, William I.
Yuan, Jean

<120> Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same

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<141> 2001-07-11

<150> US 09/665,350
<151> 2000-09-18

<150> PCT/US00/04414
<151> 2000-02-22

<150> PCT/US98/18824
<151> 1998-09-10

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Page 2

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25

30

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 Leu Gln Leu Lys Ser Glu Tyr Pro Asp Leu Phe Glu Trp Phe Cys
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P1618P2C3.txt

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P1618P2C3.txt

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P1618P2C3.txt

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P1618P2C3.txt

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P1618P2C3.txt

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P1618P2C3.txt

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P1618P2C3.txt

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Asp Leu Ala Gln Trp Glu Pro Val Leu Val Pro Glu Ala His Pro
80 85 90

Asn Ala Ser Leu Thr Met Tyr Val Cys Thr Pro Val Pro His Pro
95 100 105

Asp Pro Pro Met Ala Leu Ser Arg Thr Pro Thr Arg Gln Ile Ser
110 115 120

Ser Ser Asp Thr Asp Pro Pro Ala Asp Gly Pro Ser Asn Pro Leu
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Cys Cys Cys Phe His Gly Pro Ala Phe Ser Thr Leu Asn Pro Val
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P1618P2C3.txt

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<210> 23
<211> 205

P1618P2C3.txt

<212> PRT
<213> Homo Sapien

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35 40 45
Leu Tyr Ser Arg Thr Ser Gly Lys His Val Gln Val Thr Gly Arg
50 55 60
Arg Ile Ser Ala Thr Ala Glu Asp Gly Asn Lys Phe Ala Lys Leu
65 70 75
Ile Val Glu Thr Asp Thr Phe Gly Ser Arg Val Arg Ile Lys Gly
80 85 90
Ala Glu Ser Glu Lys Tyr Ile Cys Met Asn Lys Arg Gly Lys Leu
95 100 105
Ile Gly Lys Pro Ser Gly Lys Ser Lys Asp Cys Val Phe Thr Glu
110 115 120
Ile Val Leu Glu Asn Asn Tyr Thr Ala Phe Gln Asn Ala Arg His
125 130 135
Glu Gly Trp Phe Met Ala Phe Thr Arg Gln Gly Arg Pro Arg Gln
140 145 150
Ala Ser Arg Ser Arg Gln Asn Gln Arg Glu Ala His Phe Ile Lys
155 160 165
Arg Leu Tyr Gln Gln Leu Pro Phe Pro Asn His Ala Glu Lys
170 175 180
Gln Lys Gln Phe Glu Phe Val Gly Ser Ala Pro Thr Arg Arg Thr
185 190 195
Lys Arg Thr Arg Arg Pro Gln Pro Leu Thr
200 205

<210> 24
<211> 28
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 24
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<210> 25
<211> 24
<212> DNA
<213> Artificial sequence

<220>

P1618P2C3.txt

<223> Synthetic Oligonucleotide Probe

<400> 25
ccggtgacct gcacgtgctt gcc 24

<210> 26
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<220>
<221> unsure
<222> 21
<223> unknown base

<400> 26
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<210> 27
<211> 2479
<212> DNA
<213> Homo Sapien

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gagacagcag ggagattatt ttaccatacg ccctcaggac gttccctcta 150
gctggagttc tggacttcaa cagaacccca tccagtcatt ttgattttgc 200
tgtttatattt tttttcttt ttcttttcc caccacattt tattttatattt 250
ccgtacttca gaaatgggcc tacagaccac aaagtggccc agccatgggg 300
ctttttcctt gaagtcttgg ctatcattt ccctggggct ctactcacag 350
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tgtctactgt aatgagcgaa gcttgacctc agtgcctctt gggatcccgg 450
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gtggacttgc aagagctgag agtggatgaa aatcgaattt ctgtcatatac 850
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P1618P2C3.txt

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cggtggata tatccaacaa ccaactgcgg atgctgactc aaggggtttt 1150
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gatcgggggc gcggtgatat ttgtgctggt ggtcttgctc agcgtctttt 1950
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P1618P2C3.txt

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<211> 660
<212> PRT
<213> Homo Sapien

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35 40 45
Phe Val Tyr Cys Asn Glu Arg Ser Leu Thr Ser Val Pro Leu Gly
50 55 60
Ile Pro Glu Gly Val Thr Val Leu Tyr Leu His Asn Asn Gln Ile
65 70 75
Asn Asn Ala Gly Phe Pro Ala Glu Leu His Asn Val Gln Ser Val
80 85 90
His Thr Val Tyr Leu Tyr Gly Asn Gln Leu Asp Glu Phe Pro Met
95 100 105
Asn Leu Pro Lys Asn Val Arg Val Leu His Leu Gln Glu Asn Asn
110 115 120
Ile Gln Thr Ile Ser Arg Ala Ala Leu Ala Gln Leu Leu Lys Leu
125 130 135
Glu Glu Leu His Leu Asp Asp Asn Ser Ile Ser Thr Val Gly Val
140 145 150
Glu Asp Gly Ala Phe Arg Glu Ala Ile Ser Leu Lys Leu Leu Phe
155 160 165
Leu Ser Lys Asn His Leu Ser Ser Val Pro Val Gly Leu Pro Val
170 175 180
Asp Leu Gln Glu Leu Arg Val Asp Glu Asn Arg Ile Ala Val Ile
185 190 195
Ser Asp Met Ala Phe Gln Asn Leu Thr Ser Leu Glu Arg Leu Ile
200 205 210
Val Asp Gly Asn Leu Leu Thr Asn Lys Gly Ile Ala Glu Gly Thr
215 220 225
Phe Ser His Leu Thr Lys Leu Lys Glu Phe Ser Ile Val Arg Asn
230 235 240
Ser Leu Ser His Pro Pro Pro Asp Leu Pro Gly Thr His Leu Ile
245 250 255
Arg Leu Tyr Leu Gln Asp Asn Gln Ile Asn His Ile Pro Leu Thr
260 265 270
Ala Phe Ser Asn Leu Arg Lys Leu Glu Arg Leu Asp Ile Ser Asn
275 280 285

P1618P2C3.txt

Asn Gln Leu Arg Met Leu Thr Gln Gly Val Phe Asp Asn Leu Ser
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305 310 315
Cys Ser Ile Lys Trp Val Thr Glu Trp Leu Lys Tyr Ile Pro Ser
320 325 330
Ser Leu Asn Val Arg Gly Phe Met Cys Gln Gly Pro Glu Gln Val
335 340 345
Arg Gly Met Ala Val Arg Glu Leu Asn Met Asn Leu Leu Ser Cys
350 355 360
Pro Thr Thr Thr Pro Gly Leu Pro Leu Phe Thr Pro Ala Pro Ser
365 370 375
Thr Ala Ser Pro Thr Thr Gln Pro Pro Thr Leu Ser Ile Pro Asn
380 385 390
Pro Ser Arg Ser Tyr Thr Pro Pro Thr Pro Thr Thr Ser Lys Leu
395 400 405
Pro Thr Ile Pro Asp Trp Asp Gly Arg Glu Arg Val Thr Pro Pro
410 415 420
Ile Ser Glu Arg Ile Gln Leu Ser Ile His Phe Val Asn Asp Thr
425 430 435
Ser Ile Gln Val Ser Trp Leu Ser Leu Phe Thr Val Met Ala Tyr
440 445 450
Lys Leu Thr Trp Val Lys Met Gly His Ser Leu Val Gly Gly Ile
455 460 465
Val Gln Glu Arg Ile Val Ser Gly Glu Lys Gln His Leu Ser Leu
470 475 480
Val Asn Leu Glu Pro Arg Ser Thr Tyr Arg Ile Cys Leu Val Pro
485 490 495
Leu Asp Ala Phe Asn Tyr Arg Ala Val Glu Asp Thr Ile Cys Ser
500 505 510
Glu Ala Thr Thr His Ala Ser Tyr Leu Asn Asn Gly Ser Asn Thr
515 520 525
Ala Ser Ser His Glu Gln Thr Thr Ser His Ser Met Gly Ser Pro
530 535 540
Phe Leu Leu Ala Gly Leu Ile Gly Gly Ala Val Ile Phe Val Leu
545 550 555
Val Val Leu Leu Ser Val Phe Cys Trp His Met His Lys Lys Gly
560 565 570
Arg Tyr Thr Ser Gln Lys Trp Lys Tyr Asn Arg Gly Arg Arg Lys
575 580 585
Asp Asp Tyr Cys Glu Ala Gly Thr Lys Lys Asp Asn Ser Ile Leu
590 595 600

P1618P2C3.txt

Glu Met Thr Glu Thr Ser Phe Gln Ile Val Ser Leu Asn Asn Asp
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Gln Leu Leu Lys Gly Asp Phe Arg Leu Gln Pro Ile Tyr Thr Pro
620 625 630
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635 640 645
Arg Tyr Cys Asn Ser Ser Val Pro Asp Leu Glu His Cys His Thr
650 655 660

<210> 29
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 29
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<210> 30
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 30
gcaggacaac cagataaacc ac 22

<210> 31
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 31
acgcagattt gagaaggctg tc 22

<210> 32
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

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<210> 33
<211> 3449
<212> DNA
<213> Homo Sapien

<400> 33

P1618P2C3.txt

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P1618P2C3.txt

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gacaagaagt atacactaac ttgtataaat ttatcttagga aaaaaatcct 3150

P1618P2C3.txt

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ctgtagaaca ctggccatag gaaatgctgt tttttgtac tggactttac 3350
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<211> 915

<212> PRT

<213> Homo Sapien

<400> 34

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Ser	Ile	Ser	Arg	Gly	Arg	His	Ala	Arg	Thr	His	Pro	Gln	Thr	Ala
				35					40					45
Leu	Leu	Glu	Ser	Ser	Cys	Glu	Asn	Lys	Arg	Ala	Asp	Leu	Val	Phe
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Ile	Ile	Asp	Ser	Ser	Arg	Ser	Val	Asn	Thr	His	Asp	Tyr	Ala	Lys
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Val	Lys	Glu	Phe	Ile	Val	Asp	Ile	Leu	Gln	Phe	Leu	Asp	Ile	Gly
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Pro	Asp	Val	Thr	Arg	Val	Gly	Leu	Leu	Gln	Tyr	Gly	Ser	Thr	Val
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Lys	Asn	Glu	Phe	Ser	Leu	Lys	Thr	Phe	Lys	Arg	Lys	Ser	Glu	Val
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Thr	Gly	Leu	Ala	Ile	Gln	Tyr	Ala	Leu	Asn	Ile	Ala	Phe	Ser	Glu
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Ala	Glu	Gly	Ala	Arg	Pro	Leu	Arg	Glu	Asn	Val	Pro	Arg	Val	Ile
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Met	Ile	Val	Thr	Asp	Gly	Arg	Pro	Gln	Asp	Ser	Val	Ala	Glu	Val
				170					175					180
Ala	Ala	Lys	Ala	Arg	Asp	Thr	Gly	Ile	Leu	Ile	Phe	Ala	Ile	Gly
				185					190					195
Val	Gly	Gln	Val	Asp	Phe	Asn	Thr	Leu	Lys	Ser	Ile	Gly	Ser	Glu
				200					205					210
Pro	His	Glu	Asp	His	Val	Phe	Leu	Val	Ala	Asn	Phe	Ser	Gln	Ile
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P1618P2C3.txt

Glu Thr Leu Thr Ser Val Phe Gln Lys Lys Leu Cys Thr Ala His
230 235 240
Met Cys Ser Thr Leu Glu His Asn Cys Ala His Phe Cys Ile Asn
245 250 255
Ile Pro Gly Ser Tyr Val Cys Arg Cys Lys Gln Gly Tyr Ile Leu
260 265 270
Asn Ser Asp Gln Thr Thr Cys Arg Ile Gln Asp Leu Cys Ala Met
275 280 285
Glu Asp His Asn Cys Glu Gln Leu Cys Val Asn Val Pro Gly Ser
290 295 300
Phe Val Cys Gln Cys Tyr Ser Gly Tyr Ala Leu Ala Glu Asp Gly
305 310 315
Lys Arg Cys Val Ala Val Asp Tyr Cys Ala Ser Glu Asn His Gly
320 325 330
Cys Glu His Glu Cys Val Asn Ala Asp Gly Ser Tyr Leu Cys Gln
335 340 345
Cys His Glu Gly Phe Ala Leu Asn Pro Asp Glu Lys Thr Cys Thr
350 355 360
Arg Ile Asn Tyr Cys Ala Leu Asn Lys Pro Gly Cys Glu His Glu
365 370 375
Cys Val Asn Met Glu Glu Ser Tyr Tyr Cys Arg Cys His Arg Gly
380 385 390
Tyr Thr Leu Asp Pro Asn Gly Lys Thr Cys Ser Arg Val Asp His
395 400 405
Cys Ala Gln Gln Asp His Gly Cys Glu Gln Leu Cys Leu Asn Thr
410 415 420
Glu Asp Ser Phe Val Cys Gln Cys Ser Glu Gly Phe Leu Ile Asn
425 430 435
Glu Asp Leu Lys Thr Cys Ser Arg Val Asp Tyr Cys Leu Leu Ser
440 445 450
Asp His Gly Cys Glu Tyr Ser Cys Val Asn Met Asp Arg Ser Phe
455 460 465
Ala Cys Gln Cys Pro Glu Gly His Val Leu Arg Ser Asp Gly Lys
470 475 480
Thr Cys Ala Lys Leu Asp Ser Cys Ala Leu Gly Asp His Gly Cys
485 490 495
Glu His Ser Cys Val Ser Ser Glu Asp Ser Phe Val Cys Gln Cys
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Phe Glu Gly Tyr Ile Leu Arg Glu Asp Gly Lys Thr Cys Arg Arg
515 520 525
Lys Asp Val Cys Gln Ala Ile Asp His Gly Cys Glu His Ile Cys
530 535 540

P1618P2C3.txt

Val Asn Ser Asp Asp Ser Tyr Thr Cys Glu Cys Leu Glu Gly Phe
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 560 565 570
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 575 580 585
 Asn Ser Tyr Ile Cys Lys Cys Ser Glu Gly Phe Val Leu Ala Glu
 590 595 600
 Asp Gly Arg Arg Cys Lys Lys Cys Thr Glu Gly Pro Ile Asp Leu
 605 610 615
 Val Phe Val Ile Asp Gly Ser Lys Ser Leu Gly Glu Glu Asn Phe
 620 625 630
 Glu Val Val Lys Gln Phe Val Thr Gly Ile Ile Asp Ser Leu Thr
 635 640 645
 Ile Ser Pro Lys Ala Ala Arg Val Gly Leu Leu Gln Tyr Ser Thr
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 665 670 675
 Asp Met Lys Lys Ala Val Ala His Met Lys Tyr Met Gly Lys Gly
 680 685 690
 Ser Met Thr Gly Leu Ala Leu Lys His Met Phe Glu Arg Ser Phe
 695 700 705
 Thr Gln Gly Glu Gly Ala Arg Pro Leu Ser Thr Arg Val Pro Arg
 710 715 720
 Ala Ala Ile Val Phe Thr Asp Gly Arg Ala Gln Asp Asp Val Ser
 725 730 735
 Glu Trp Ala Ser Lys Ala Lys Ala Asn Gly Ile Thr Met Tyr Ala
 740 745 750
 Val Gly Val Gly Lys Ala Ile Glu Glu Glu Leu Gln Glu Ile Ala
 755 760 765
 Ser Glu Pro Thr Asn Lys His Leu Phe Tyr Ala Glu Asp Phe Ser
 770 775 780
 Thr Met Asp Glu Ile Ser Glu Lys Leu Lys Lys Gly Ile Cys Glu
 785 790 795
 Ala Leu Glu Asp Ser Asp Gly Arg Gln Asp Ser Pro Ala Gly Glu
 800 805 810
 Leu Pro Lys Thr Val Gln Gln Pro Thr Glu Ser Glu Pro Val Thr
 815 820 825
 Ile Asn Ile Gln Asp Leu Leu Ser Cys Ser Asn Phe Ala Val Gln
 830 835 840
 His Arg Tyr Leu Phe Glu Glu Asp Asn Leu Leu Arg Ser Thr Gln
 845 850 855

P1618P2C3.txt

Lys Leu Ser His Ser Thr Lys Pro Ser Gly Ser Pro Leu Glu Glu
860 865 870

Lys His Asp Gln Cys Lys Cys Glu Asn Leu Ile Met Phe Gln Asn
875 880 885

Leu Ala Asn Glu Glu Val Arg Lys Leu Thr Gln Arg Leu Glu Glu
890 895 900

Met Thr Gln Arg Met Glu Ala Leu Glu Asn Arg Leu Arg Tyr Arg
905 910 915

<210> 35

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 35

gtgaccctgg ttgtgaatac tcc 23

<210> 36

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 36

acagccatgg tctatagctt gg 22

<210> 37

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 37

gcctgtcagt gtcctgaggg acacgtgctc cgcagcgatg ggaag 45

<210> 38

<211> 1813

<212> DNA

<213> Homo Sapien

<400> 38

ggagccgccc tgggtgtcag cggtctggct cccgcgcacg ctccggccgt 50

cgcgcagcct cggcacctgc aggtccgtgc gtcccgccgc tggcgccct 100

gactccgtcc cggccagggaa gggccatgat ttccctcccg gggccccctgg 150

tgaccaactt gctgcggttt ttgttccctgg ggctgagtc cctcgccccc 200

ccctcgccgg cccagctgca actgcacttg cccgccaacc gttgcagggc 250

ggtggaggga ggggaagtgg tgcttccagc gtggtaacc ttgcacgggg 300

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tttggatgaa aaa 1813

P1618P2C3.txt

<211> 390
<212> PRT
<213> Homo Sapien

<400> 39
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20 25 30
Leu Gln Leu His Leu Pro Ala Asn Arg Leu Gln Ala Val Glu Gly
35 40 45
Gly Glu Val Val Leu Pro Ala Trp Tyr Thr Leu His Gly Glu Val
50 55 60
Ser Ser Ser Gln Pro Trp Glu Val Pro Phe Val Met Trp Phe Phe
65 70 75
Lys Gln Lys Glu Lys Glu Asp Gln Val Leu Ser Tyr Ile Asn Gly
80 85 90
Val Thr Thr Ser Lys Pro Gly Val Ser Leu Val Tyr Ser Met Pro
95 100 105
Ser Arg Asn Leu Ser Leu Arg Leu Glu Gly Leu Gln Glu Lys Asp
110 115 120
Ser Gly Pro Tyr Ser Cys Ser Val Asn Val Gln Asp Lys Gln Gly
125 130 135
Lys Ser Arg Gly His Ser Ile Lys Thr Leu Glu Leu Asn Val Leu
140 145 150
Val Pro Pro Ala Pro Pro Ser Cys Arg Leu Gln Gly Val Pro His
155 160 165
Val Gly Ala Asn Val Thr Leu Ser Cys Gln Ser Pro Arg Ser Lys
170 175 180
Pro Ala Val Gln Tyr Gln Trp Asp Arg Gln Leu Pro Ser Phe Gln
185 190 195
Thr Phe Phe Ala Pro Ala Leu Asp Val Ile Arg Gly Ser Leu Ser
200 205 210
Leu Thr Asn Leu Ser Ser Ser Met Ala Gly Val Tyr Val Cys Lys
215 220 225
Ala His Asn Glu Val Gly Thr Ala Gln Cys Asn Val Thr Leu Glu
230 235 240
Val Ser Thr Gly Pro Gly Ala Ala Val Val Ala Gly Ala Val Val
245 250 255
Gly Thr Leu Val Gly Leu Gly Leu Leu Ala Gly Leu Val Leu Leu
260 265 270
Tyr His Arg Arg Gly Lys Ala Leu Glu Glu Pro Ala Asn Asp Ile
275 280 285
Lys Glu Asp Ala Ile Ala Pro Arg Thr Leu Pro Trp Pro Lys Ser

P1618P2C3.txt

290

295

300

Ser Asp Thr Ile Ser Lys Asn Gly Thr Leu Ser Ser Val Thr Ser
305 310 315

Ala Arg Ala Leu Arg Pro Pro His Gly Pro Pro Arg Pro Gly Ala
320 325 330

Leu Thr Pro Thr Pro Ser Leu Ser Ser Gln Ala Leu Pro Ser Pro
335 340 345

Arg Leu Pro Thr Thr Asp Gly Ala His Pro Gln Pro Ile Ser Pro
350 355 360

Ile Pro Gly Gly Val Ser Ser Ser Gly Leu Ser Arg Met Gly Ala
365 370 375

Val Pro Val Met Val Pro Ala Gln Ser Gln Ala Gly Ser Leu Val
380 385 390

<210> 40

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 40

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<210> 41

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 41

attgtgggcc ttgcagacat agac 24

<210> 42

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 42

ggccacagca tcaaaacctt agaactcaat gtactggttc ctccagctcc 50

<210> 43

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 43

gtgtgacaca gcgtgggc 18

P1618P2C3.txt

<210> 44
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 44
gaccggcagg cttctgct 18

<210> 45
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 45
cagcagcttc agccaccagg agtgg 25

<210> 46
<211> 24
<212> DNA
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<220>
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<400> 46
ctgagccgtg ggctgcagtc tcgc 24

<210> 47
<211> 45
<212> DNA
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<220>
<223> Synthetic Oligonucleotide Probe

<400> 47
ccgactacga ctggttttc atcatgcagg atgacacacata tgtgc 45

<210> 48
<211> 2822
<212> DNA
<213> Homo Sapien

<400> 48
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ttgtctccca aatgcaaaat gtgaaatacg caatggattt gaagcctgct 150
attgcaacat gggattttca gggaaatgggt tcacaatttgc tgaagatgtat 200
aatgaatgtt gaaattttaac tcagtcctgt ggcggaaatgt ctaattgcac 250
taacacagaa ggaagtttattt attgtatgtt tggtaacctggc ttcagatcca 300

gcagtaacca agacaggaaa atcactaatg atgaaaccgt ctgtatagaa 350
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taataaaaact ttaacaaaaa tcagatccat aaaagaacct gtggctttgc 450
tacaagaagt ctatagaat tctgtacag atctttcacc aacagatata 500
attacatata tagaaatatt agctgaatca tcttcattac taggttacaa 550
gaacaacact atctcagcca aggacacccct ttcttaactca actcttactg 600
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gcacactgtt gaacaagcta cttaaggat atcccagagc ttccaaaaga 750
ccacagagtt tgatacaaata tcaacggata tagctctcaa agttttctt 800
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gcaatgtgc agttgcattt ttatattata agagtattgg tccttgctt 950
tcatcatctg acaacttctt attgaaacct caaaattatg ataattctga 1000
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cgaaaggtca cagataggtta taggagtcta tgtgcatttt ggaattactc 1150
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tatacaaaatgtt ttttcgttacactgcaggat tggatcaatca 1850
tttgagaaca taaggcttc tgcaagagga gcccctcgctc ttctgttcct 1900

P1618P2C3.txt

tctcggcacc acctggatct ttggggttct ccatgttgc cacgcacat 1950
tggttacagc ttacctcttc acagtcagca atgccttcca ggggatgttc 2000
attttttat tcctgtgtgt tttatctaga aagattcaag aagaatatta 2050
cagattgttc aaaaatgtcc cctgttgtt tggatgttta agttaaacat 2100
agagaatggt ggataattac aactgcacaa aaataaaaat tccaagctgt 2150
ggatgaccaa tgtataaaaa tgactcatca aattatccaa ttattaacta 2200
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tgtgactcgt gttgcctttg aaactagtcc cctaccacct cgtaatgag 2500
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aaaaaggTTT acctccacaa attgaaaaaaaaaaaaaaaaaaaaaaa 2800
aaaaaaaaaa aaaaaaaaaaa aa 2822

<210> 49
<211> 690
<212> PRT
<213> Homo Sapien

<400> 49
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Cys Ser Tyr Thr Gln Asn Cys Thr Lys Thr Pro Cys Leu Pro Asn
20 25 30
Ala Lys Cys Glu Ile Arg Asn Gly Ile Glu Ala Cys Tyr Cys Asn
35 40 45
Met Gly Phe Ser Gly Asn Gly Val Thr Ile Cys Glu Asp Asp Asn
50 55 60
Glu Cys Gly Asn Leu Thr Gln Ser Cys Gly Glu Asn Ala Asn Cys
65 70 75
Thr Asn Thr Glu Gly Ser Tyr Tyr Cys Met Cys Val Pro Gly Phe
80 85 90

P1618P2C3.txt

Arg Ser Ser Ser Asn Gln Asp Arg Phe Ile Thr Asn Asp Gly Thr
95 100 105
Val Cys Ile Glu Asn Val Asn Ala Asn Cys His Leu Asp Asn Val
110 115 120
Cys Ile Ala Ala Asn Ile Asn Lys Thr Leu Thr Lys Ile Arg Ser
125 130 135
Ile Lys Glu Pro Val Ala Leu Leu Gln Glu Val Tyr Arg Asn Ser
140 145 150
Val Thr Asp Leu Ser Pro Thr Asp Ile Ile Thr Tyr Ile Glu Ile
155 160 165
Leu Ala Glu Ser Ser Ser Leu Leu Gly Tyr Lys Asn Asn Thr Ile
170 175 180
Ser Ala Lys Asp Thr Leu Ser Asn Ser Thr Leu Thr Glu Phe Val
185 190 195
Lys Thr Val Asn Asn Phe Val Gln Arg Asp Thr Phe Val Val Trp
200 205 210
Asp Lys Leu Ser Val Asn His Arg Arg Thr His Leu Thr Lys Leu
215 220 225
Met His Thr Val Glu Gln Ala Thr Leu Arg Ile Ser Gln Ser Phe
230 235 240
Gln Lys Thr Thr Glu Phe Asp Thr Asn Ser Thr Asp Ile Ala Leu
245 250 255
Lys Val Phe Phe Phe Asp Ser Tyr Asn Met Lys His Ile His Pro
260 265 270
His Met Asn Met Asp Gly Asp Tyr Ile Asn Ile Phe Pro Lys Arg
275 280 285
Lys Ala Ala Tyr Asp Ser Asn Gly Asn Val Ala Val Ala Phe Leu
290 295 300
Tyr Tyr Lys Ser Ile Gly Pro Leu Leu Ser Ser Ser Asp Asn Phe
305 310 315
Leu Leu Lys Pro Gln Asn Tyr Asp Asn Ser Glu Glu Glu Glu Arg
320 325 330
Val Ile Ser Ser Val Ile Ser Val Ser Met Ser Ser Asn Pro Pro
335 340 345
Thr Leu Tyr Glu Leu Glu Lys Ile Thr Phe Thr Leu Ser His Arg
350 355 360
Lys Val Thr Asp Arg Tyr Arg Ser Leu Cys Ala Phe Trp Asn Tyr
365 370 375
Ser Pro Asp Thr Met Asn Gly Ser Trp Ser Ser Glu Gly Cys Glu
380 385 390
Leu Thr Tyr Ser Asn Glu Thr His Thr Ser Cys Arg Cys Asn His
395 400 405

P1618P2C3.txt

Leu Thr His Phe Ala Ile Leu Met Ser Ser Gly Pro Ser Ile Gly
410 415 420

Ile Lys Asp Tyr Asn Ile Leu Thr Arg Ile Thr Gln Leu Gly Ile
425 430 435

Ile Ile Ser Leu Ile Cys Leu Ala Ile Cys Ile Phe Thr Phe Trp
440 445 450

Phe Phe Ser Glu Ile Gln Ser Thr Arg Thr Thr Ile His Lys Asn
455 460 465

Leu Cys Cys Ser Leu Phe Leu Ala Glu Leu Val Phe Leu Val Gly
470 475 480

Ile Asn Thr Asn Thr Asn Lys Leu Phe Cys Ser Ile Ile Ala Gly
485 490 495

Leu Leu His Tyr Phe Phe Leu Ala Ala Phe Ala Trp Met Cys Ile
500 505 510

Glu Gly Ile His Leu Tyr Leu Ile Val Val Gly Val Ile Tyr Asn
515 520 525

Lys Gly Phe Leu His Lys Asn Phe Tyr Ile Phe Gly Tyr Leu Ser
530 535 540

Pro Ala Val Val Val Gly Phe Ser Ala Ala Leu Gly Tyr Arg Tyr
545 550 555

Tyr Gly Thr Thr Lys Val Cys Trp Leu Ser Thr Glu Asn Asn Phe
560 565 570

Ile Trp Ser Phe Ile Gly Pro Ala Cys Leu Ile Ile Leu Val Asn
575 580 585

Leu Leu Ala Phe Gly Val Ile Ile Tyr Lys Val Phe Arg His Thr
590 595 600

Ala Gly Leu Lys Pro Glu Val Ser Cys Phe Glu Asn Ile Arg Ser
605 610 615

Cys Ala Arg Gly Ala Leu Ala Leu Leu Phe Leu Leu Gly Thr Thr
620 625 630

Trp Ile Phe Gly Val Leu His Val Val His Ala Ser Val Val Thr
635 640 645

Ala Tyr Leu Phe Thr Val Ser Asn Ala Phe Gln Gly Met Phe Ile
650 655 660

Phe Leu Phe Leu Cys Val Leu Ser Arg Lys Ile Gln Glu Glu Tyr
665 670 675

Tyr Arg Leu Phe Lys Asn Val Pro Cys Cys Phe Gly Cys Leu Arg
680 685 690

<210> 50

<211> 589

<212> DNA

<213> Homo Sapien

<220>

P1618P2C3.txt

<221> unsure
<222> 61
<223> unknown base

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atttccaaag ngaaaagccg gcatatggat tcaaattggca atgttgcagt 100
tgcattttta tattataaga gtattggtcc ctttgcttc atcatctgac 150
aacttcttat tgaaacctca aaattatgat aattctgaag aggaggaaag 200
agtcatatct tcagtaattt cagtcataat gagctcaaac ccacccacat 250
tatatgaact tgaaaaata acatttacat taagtcatcg aaaggtcaca 300
gataggtata ggagtctatg tggcattttg gaatactcac ctgataccat 350
gaatggcagc tggcttcag agggctgtga gctgacatac tcaaattgaga 400
cccacacctc atgccgctgt aatcacctga cacatttgc aattttgatg 450
tcctctggtc cttccattgg tattaaagat tataatattc ttacaaggat 500
cactcaacta ggaataatta tttcactgat ttgtcttgcc atatgcattt 550
ttacttctg gttcttcagt gaaattcaaa gcaccagga 589

<210> 51
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 51
ggtaatgagc tccattacag 20

<210> 52
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 52
ggagtagaaa ggcgcattgg 18

<210> 53
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 53
cacctgataac catgaatggc ag 22

<210> 54

P1618P2C3.txt

<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 54
cgagctcgaa ttaattcg 18

<210> 55
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 55
ggatctcctg agtcagg 18

<210> 56
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 56
ccttagttgag tgatccttgt aag 23

<210> 57
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 57
atgagaccca cacctcatgc cgctgtatc acctgacaca ttttgcatt 50

<210> 58
<211> 2137
<212> DNA
<213> Homo Sapien

<400> 58
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gaaacccggc cgctaaggcga ggcctcctcc tcccgcagat ccgaacggcc 100
tgggcggggt caccggcgt gggacaagaa gccgcccct gcctgcccgg 150
gcccggggag ggggctgggg ctggggccgg aggcggggtg tgagtgggtg 200
tgtgcggggg gcggaggctt gatgcaatcc cgataagaaa tgctcggttg 250
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P1618P2C3.txt

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attggggcct cccaggcccc ccacccatgt tcaacctgca cttctgttc 1900
aaaaatcagg aaaagaaaag atttgaagac cccaaatctt gtcaataact 1950

P1618P2C3.txt

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ttatttctt acattattta tgcccccaa ttatattttat gtatgttaagt 2100
gaggtttgg ttgtatatta aaatggagtt tgtttgt 2137

<210> 59
<211> 216
<212> PRT
<213> Homo Sapien

<400> 59
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20 25 30
Gly Pro His Val His Tyr Gly Trp Gly Asp Pro Ile Arg Leu Arg
35 40 45
His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe Leu
50 55 60
Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln Ser
65 70 75
Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val
80 85 90
Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
95 100 105
Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys
110 115 120
Ala Phe Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg
125 130 135
Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln
140 145 150
Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe
155 160 165
Leu Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg
170 175 180
Gly His Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp
185 190 195
Ser Met Asp Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg
200 205 210
Ser Pro Ser Phe Glu Lys
215

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<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

<400> 60

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<211> 42

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<223> Synthetic Oligonucleotide Probe

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<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 62

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<210> 63

<211> 1295

<212> DNA

<213> Homo Sapien

<400> 63

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tcgacctcct cagagcagcc ggctgccgcc ccgggaagat ggcgaggagg 100

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gggctatcat aaggcctatg gttttctgc cccaaaagac caacaagtag 200

tcacagcagt agagtaccaa gaggctatTT tagcctgaa aaccccaaag 250

aagactgttt cctccagatt agagtggaaag aaactgggtc ggagtgtctc 300

ctttgtctac tatcaacaga ctcttcaagg tgatTTaaa aatcgagctg 350

agatgataga tttcaatatc cgatcaaaa atgtgacaag aagtgtatgcg 400

ggaaatatac gttgtgaagt tagtccccca tctgagcaag gccaaaacct 450

ggaagaggat acagtcaactc tggaaagtatt agtggctcca gcagttccat 500

catgtgaagt accctttct gctctgagtg gaactgtggt agagctacga 550

tgtcaagaca aagaaggaa tccagctcct gaatacacat gtttaagga 600

tggcatccgt ttgctagaaa atcccagact tggctccaa agcaccaaca 650

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P1618P2C3.txt

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cggaggttgc agtgagctga gatcacgcca ctgcagtcga gcctgggtaa 1200
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<211> 312

<212> PRT

<213> Homo Sapien

<400> 64

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Ala Pro Lys Asp Gln Gln Val Val Thr Ala Val Glu Tyr Gln Glu
35 40 45

Ala Ile Leu Ala Cys Lys Thr Pro Lys Lys Thr Val Ser Ser Arg
50 55 60

Leu Glu Trp Lys Lys Leu Gly Arg Ser Val Ser Phe Val Tyr Tyr
65 70 75

Gln Gln Thr Leu Gln Gly Asp Phe Lys Asn Arg Ala Glu Met Ile
80 85 90

Asp Phe Asn Ile Arg Ile Lys Asn Val Thr Arg Ser Asp Ala Gly
95 100 105

Lys Tyr Arg Cys Glu Val Ser Ala Pro Ser Glu Gln Gly Gln Asn
110 115 120

Leu Glu Glu Asp Thr Val Thr Leu Glu Val Leu Val Ala Pro Ala
125 130 135

Val Pro Ser Cys Glu Val Pro Ser Ser Ala Leu Ser Gly Thr Val
140 145 150

Val Glu Leu Arg Cys Gln Asp Lys Glu Gly Asn Pro Ala Pro Glu
155 160 165

P1618P2C3.txt

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185 190 195
Thr Gly Thr Leu Gln Phe Asn Thr Val Ser Lys Leu Asp Thr Gly
200 205 210
Glu Tyr Ser Cys Glu Ala Arg Asn Ser Val Gly Tyr Arg Arg Cys
215 220 225
Pro Gly Lys Arg Met Gln Val Asp Asp Leu Asn Ile Ser Gly Ile
230 235 240
Ile Ala Ala Val Val Val Val Ala Leu Val Ile Ser Val Cys Gly
245 250 255
Leu Gly Val Cys Tyr Ala Gln Arg Lys Gly Tyr Phe Ser Lys Glu
260 265 270
Thr Ser Phe Gln Lys Ser Asn Ser Ser Ser Lys Ala Thr Thr Met
275 280 285
Ser Glu Asn Val Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp
290 295 300
Lys Ala Ala Ala Gly Gly Ser Arg Gly Gln Glu Phe
305 310

<210> 65

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 65

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<210> 66

<211> 23

<212> DNA

<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

<400> 66

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<210> 67

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

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P1618P2C3.txt

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<211> 2639
<212> DNA
<213> Homo Sapien

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agaagcatgg gatttaataa ttttacttctt aaataaaatga attactcaat 200
ctcctatgac catctataca tactccaccc tcaaaaagta catcaatatt 250
atatcattaa ggaaatagta accttcttctt ctccaaatatg catgacattt 300
ttggacaatg caattgtggc actggcactt atttcagtga agaaaaactt 350
tgtggttctta tggcattcat catttgacaa atgcaagcat cttccttatac 400
aatcagctcc tattgaactt actagcactg actgtggaat ccttaaggc 450
ccattacatt tctgaagaag aaagctaaga tgaaggacat gccactccga 500
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aatacgaagg ggtgatTTTA gcaatatgct acactaaaa gagttgggaa 1350
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P1618P2C3.txt

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ccaaacctca aggaaatcg catacacagt aaccccattca ggtgtgactg 1600
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<210> 69

<211> 708

<212> PRT

<213> Homo Sapien

<400> 69

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Ile Thr Thr Leu Val Gln Ala Val Asp Lys Lys Val Asp Cys Pro
20 25 30

Arg Leu Cys Thr Cys Glu Ile Arg Pro Trp Phe Thr Pro Arg Ser
Page 42

Ile Tyr Met Glu Ala Ser Thr Val Asp Cys Asn Asp Leu Gly Leu
 50 55 60
 Leu Thr Phe Pro Ala Arg Leu Pro Ala Asn Thr Gln Ile Leu Leu
 65 70 75
 Leu Gln Thr Asn Asn Ile Ala Lys Ile Glu Tyr Ser Thr Asp Phe
 80 85 90
 Pro Val Asn Leu Thr Gly Leu Asp Leu Ser Gln Asn Asn Leu Ser
 95 100 105
 Ser Val Thr Asn Ile Asn Val Lys Lys Met Pro Gln Leu Leu Ser
 110 115 120
 Val Tyr Leu Glu Glu Asn Lys Leu Thr Glu Leu Pro Glu Lys Cys
 125 130 135
 Leu Ser Glu Leu Ser Asn Leu Gln Glu Leu Tyr Ile Asn His Asn
 140 145 150
 Leu Leu Ser Thr Ile Ser Pro Gly Ala Phe Ile Gly Leu His Asn
 155 160 165
 Leu Leu Arg Leu His Leu Asn Ser Asn Arg Leu Gln Met Ile Asn
 170 175 180
 Ser Lys Trp Phe Asp Ala Leu Pro Asn Leu Glu Ile Leu Met Ile
 185 190 195
 Gly Glu Asn Pro Ile Ile Arg Ile Lys Asp Met Asn Phe Lys Pro
 200 205 210
 Leu Ile Asn Leu Arg Ser Leu Val Ile Ala Gly Ile Asn Leu Thr
 215 220 225
 Glu Ile Pro Asp Asn Ala Leu Val Gly Leu Glu Asn Leu Glu Ser
 230 235 240
 Ile Ser Phe Tyr Asp Asn Arg Leu Ile Lys Val Pro His Val Ala
 245 250 255
 Leu Gln Lys Val Val Asn Leu Lys Phe Leu Asp Leu Asn Lys Asn
 260 265 270
 Pro Ile Asn Arg Ile Arg Arg Gly Asp Phe Ser Asn Met Leu His
 275 280 285
 Leu Lys Glu Leu Gly Ile Asn Asn Met Pro Glu Leu Ile Ser Ile
 290 295 300
 Asp Ser Leu Ala Val Asp Asn Leu Pro Asp Leu Arg Lys Ile Glu
 305 310 315
 Ala Thr Asn Asn Pro Arg Leu Ser Tyr Ile His Pro Asn Ala Phe
 320 325 330
 Phe Arg Leu Pro Lys Leu Glu Ser Leu Met Leu Asn Ser Asn Ala
 335 340 345
 Leu Ser Ala Leu Tyr His Gly Thr Ile Glu Ser Leu Pro Asn Leu

P1618P2C3.txt

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380	385	390
Pro Asp Ser Leu Phe Cys Val Asp Pro Pro Glu Phe Gln Gly Gln		
395	400	405
Asn Val Arg Gln Val His Phe Arg Asp Met Met Glu Ile Cys Leu		
410	415	420
Pro Leu Ile Ala Pro Glu Ser Phe Pro Ser Asn Leu Asn Val Glu		
425	430	435
Ala Gly Ser Tyr Val Ser Phe His Cys Arg Ala Thr Ala Glu Pro		
440	445	450
Gln Pro Glu Ile Tyr Trp Ile Thr Pro Ser Gly Gln Lys Leu Leu		
455	460	465
Pro Asn Thr Leu Thr Asp Lys Phe Tyr Val His Ser Glu Gly Thr		
470	475	480
Leu Asp Ile Asn Gly Val Thr Pro Lys Glu Gly Gly Leu Tyr Thr		
485	490	495
Cys Ile Ala Thr Asn Leu Val Gly Ala Asp Leu Lys Ser Val Met		
500	505	510
Ile Lys Val Asp Gly Ser Phe Pro Gln Asp Asn Asn Gly Ser Leu		
515	520	525
Asn Ile Lys Ile Arg Asp Ile Gln Ala Asn Ser Val Leu Val Ser		
530	535	540
Trp Lys Ala Ser Ser Lys Ile Leu Lys Ser Ser Val Lys Trp Thr		
545	550	555
Ala Phe Val Lys Thr Glu Asn Ser His Ala Ala Gln Ser Ala Arg		
560	565	570
Ile Pro Ser Asp Val Lys Val Tyr Asn Leu Thr His Leu Asn Pro		
575	580	585
Ser Thr Glu Tyr Lys Ile Cys Ile Asp Ile Pro Thr Ile Tyr Gln		
590	595	600
Lys Asn Arg Lys Lys Cys Val Asn Val Thr Thr Lys Gly Leu His		
605	610	615
Pro Asp Gln Lys Glu Tyr Glu Lys Asn Asn Thr Thr Thr Leu Met		
620	625	630
Ala Cys Leu Gly Gly Leu Leu Gly Ile Ile Gly Val Ile Cys Leu		
635	640	645
Ile Ser Cys Leu Ser Pro Glu Met Asn Cys Asp Gly Gly His Ser		
650	655	660
Tyr Val Arg Asn Tyr Leu Gln Lys Pro Thr Phe Ala Leu Gly Glu		

P1618P2C3.txt
665 670 675

Leu Tyr Pro Pro Leu Ile Asn Leu Trp Glu Ala Gly Lys Glu Lys
680 685 690

Ser Thr Ser Leu Lys Val Lys Ala Thr Val Ile Gly Leu Pro Thr
695 700 705

Asn Met Ser

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<211> 1305
<212> DNA
<213> Homo Sapien

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gggctcgtga ttatgctgac attccagcat gaatctggta gacctgtgg 200
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ttcctctggg ggtttaaatg tcacctgttag caatgcaa atctcaaggaaa 350
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cagatcacat ctattccaa tggaaatttt aaggacctcc atcaactgag 450
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cgattgcagt agaaataagt ggtttacttc tcccatccat tgtaaacatt 1050
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aacaacact acaacataaa taatttgatc ttaggtgatc cacccttaa 1150

P1618P2C3.txt

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caaataaaag cttactttg aaccatggga aaaaaaaaaa aaaaaaaaaa 1300
aaaca 1305

<210> 71
<211> 259
<212> PRT
<213> Homo Sapien

<400> 71
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Ala Ser Met Cys Pro Lys Gly Cys Leu Cys Ser Ser Ser Gly Gly
35 40 45
Leu Asn Val Thr Cys Ser Asn Ala Asn Leu Lys Glu Ile Pro Arg
50 55 60
Asp Leu Pro Pro Glu Thr Val Leu Leu Tyr Leu Asp Ser Asn Gln
65 70 75
Ile Thr Ser Ile Pro Asn Glu Ile Phe Lys Asp Leu His Gln Leu
80 85 90
Arg Val Leu Asn Leu Ser Lys Asn Gly Ile Glu Phe Ile Asp Glu
95 100 105
His Ala Phe Lys Gly Val Ala Glu Thr Leu Gln Thr Leu Asp Leu
110 115 120
Ser Asp Asn Arg Ile Gln Ser Val His Lys Asn Ala Phe Asn Asn
125 130 135
Leu Lys Ala Arg Ala Arg Ile Ala Asn Asn Pro Trp His Cys Asp
140 145 150
Cys Thr Leu Gln Gln Val Leu Arg Ser Met Ala Ser Asn His Glu
155 160 165
Thr Ala His Asn Val Ile Cys Lys Thr Ser Val Leu Asp Glu His
170 175 180
Ala Gly Arg Pro Phe Leu Asn Ala Ala Asn Asp Ala Asp Leu Cys
185 190 195
Asn Leu Pro Lys Lys Thr Thr Asp Tyr Ala Met Leu Val Thr Met
200 205 210
Phe Gly Trp Phe Thr Met Val Ile Ser Tyr Val Val Tyr Tyr Val
215 220 225
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230 235 240
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Ser Thr Val Val

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<211> 2290
<212> DNA
<213> Homo Sapien

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P1618P2C3.txt

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<210> 73

<211> 620

<212> PRT

<213> Homo Sapien

<400> 73

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20 25 30

Leu Gly Ser Val Leu Ser Gly Ser Ala Thr Gly Cys Pro Pro Arg
35 40 45

Cys Glu Cys Ser Ala Gln Asp Arg Ala Val Leu Cys His Arg Lys
50 55 60

Cys Phe Val Ala Val Pro Glu Gly Ile Pro Thr Glu Thr Arg Leu
65 70 75

Leu Asp Leu Gly Lys Asn Arg Ile Lys Thr Leu Asn Gln Asp Glu
80 85 90

P1618P2C3.txt

Phe Ala Ser Phe Pro His Leu Glu Glu Leu Glu Leu Asn Glu Asn
95 100 105
Ile Val Ser Ala Val Glu Pro Gly Ala Phe Asn Asn Leu Phe Asn
110 115 120
Leu Arg Thr Leu Gly Leu Arg Ser Asn Arg Leu Lys Leu Ile Pro
125 130 135
Leu Gly Val Phe Thr Gly Leu Ser Asn Leu Thr Lys Gln Asp Ile
140 145 150
Ser Glu Asn Lys Ile Val Ile Leu Leu Asp Tyr Met Phe Gln Asp
155 160 165
Leu Tyr Asn Leu Lys Ser Leu Glu Val Gly Asp Asn Asp Leu Val
170 175 180
Tyr Ile Ser His Arg Ala Phe Ser Gly Leu Asn Ser Leu Glu Gln
185 190 195
Leu Thr Leu Glu Lys Cys Asn Leu Thr Ser Ile Pro Thr Glu Ala
200 205 210
Leu Ser His Leu His Gly Leu Ile Val Leu Arg Leu Arg His Leu
215 220 225
Asn Ile Asn Ala Ile Arg Asp Tyr Ser Phe Lys Arg Leu Tyr Arg
230 235 240
Leu Lys Val Leu Glu Ile Ser His Trp Pro Tyr Leu Asp Thr Met
245 250 255
Thr Pro Asn Cys Leu Tyr Gly Leu Asn Leu Thr Ser Leu Ser Ile
260 265 270
Thr His Cys Asn Leu Thr Ala Val Pro Tyr Leu Ala Val Arg His
275 280 285
Leu Val Tyr Leu Arg Phe Leu Asn Leu Ser Tyr Asn Pro Ile Ser
290 295 300
Thr Ile Glu Gly Ser Met Leu His Glu Leu Leu Arg Leu Gln Glu
305 310 315
Ile Gln Leu Val Gly Gly Gln Leu Ala Val Val Glu Pro Tyr Ala
320 325 330
Phe Arg Gly Leu Asn Tyr Leu Arg Val Leu Asn Val Ser Gly Asn
335 340 345
Gln Leu Thr Thr Leu Glu Glu Ser Val Phe His Ser Val Gly Asn
350 355 360
Leu Glu Thr Leu Ile Leu Asp Ser Asn Pro Leu Ala Cys Asp Cys
365 370 375
Arg Leu Leu Trp Val Phe Arg Arg Arg Trp Arg Leu Asn Phe Asn
380 385 390
Arg Gln Gln Pro Thr Cys Ala Thr Pro Glu Phe Val Gln Gly Lys
395 400 405

P1618P2C3.txt

Glu Phe Lys Asp Phe Pro Asp Val Leu Leu Pro Asn Tyr Phe Thr
410 415 420
Cys Arg Arg Ala Arg Ile Arg Asp Arg Lys Ala Gln Gln Val Phe
425 430 435
Val Asp Glu Gly His Thr Val Gln Phe Val Cys Arg Ala Asp Gly
440 445 450
Asp Pro Pro Pro Ala Ile Leu Trp Leu Ser Pro Arg Lys His Leu
455 460 465
Val Ser Ala Lys Ser Asn Gly Arg Leu Thr Val Phe Pro Asp Gly
470 475 480
Thr Leu Glu Val Arg Tyr Ala Gln Val Gln Asp Asn Gly Thr Tyr
485 490 495
Leu Cys Ile Ala Ala Asn Ala Gly Gly Asn Asp Ser Met Pro Ala
500 505 510
His Leu His Val Arg Ser Tyr Ser Pro Asp Trp Pro His Gln Pro
515 520 525
Asn Lys Thr Phe Ala Phe Ile Ser Asn Gln Pro Gly Glu Gly Glu
530 535 540
Ala Asn Ser Thr Arg Ala Thr Val Pro Phe Pro Phe Asp Ile Lys
545 550 555
Thr Leu Ile Ile Ala Thr Thr Met Gly Phe Ile Ser Phe Leu Gly
560 565 570
Val Val Leu Phe Cys Leu Val Leu Leu Phe Leu Trp Ser Arg Gly
575 580 585
Lys Gly Asn Thr Lys His Asn Ile Glu Ile Glu Tyr Val Pro Arg
590 595 600
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Asn Met Lys Met Ile
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<210> 74
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<220>
<223> Synthetic Oligonucleotide Probe

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<210> 75
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<213> Artificial Sequence

<220>

P1618P2C3.txt

<223> Synthetic Oligonucleotide Probe

<400> 75
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<210> 76
<211> 52
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<220>
<223> Synthetic Oligonucleotide Probe

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gg 52

<210> 77
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<212> DNA
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<220>
<223> Synthetic Oligonucleotide Probe

<400> 77
ccatgtgtct cctcctacaa ag 22

<210> 78
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 78
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<210> 79
<211> 50
<212> DNA
<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

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<211> 22
<212> DNA
<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

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<210> 81

P1618P2C3.txt

<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 81
aaggcgcggtaaaagatgtacgc 24

<210> 82
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 82
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<210> 83
<211> 1685
<212> DNA
<213> Homo Sapien

<400> 83
cccacgcgtccgcacccctggccccgggctccgaaggcgctcgggggcgcc 50
cttcggtaacatcgtagtccacccctccatccccca gccccccgggg 100
attcaggctcgcaggcccccagccaggagccggccgggaagcgcgatgg 150
gggccccagccgcctcgctctgctcctgc tcctgctgttgcctgctgc 200
tggcgcccgcgcccccaacctctccag gacgacagccagccctggac 250
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taaaaccttcactgtcagca gctcggtgacattccaggttacccggggagg 750
atgatggggc gacatcgtagtgctctgtgaccatgaatctctaaaggga 800
gctgacagatccacctctcaacgcattgaa gttttataca caccactgc 850
gatgatttggccagaccctccatccctcg tgaggccag aagctgtgc 900

P1618P2C3.txt

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aaggagggca gtgtgccacc cctgaagatg acccaggaga gtgccctgat 1000
cttcccttgc ctcacaacaaga gtgacagtgg cacctacggc tgcacagcca 1050
ccagcaacat gggcagctac aaggcctact acaccctcaa tgttaatgac 1100
cccagtcggc tgccctcctc ctccagcacc taccacgcca tcatacggtgg 1150
gatcgtggct ttcattgtct tcctgctgct catcatgctc atcttccttg 1200
gccactactt gatccggcac aaaggaacct acctgacaca tgaggcaaaa 1250
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cgggcagtca ggaggggacg acaagaagga atatccatc tagaggcgcc 1350
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<210> 84
<211> 398
<212> PRT
<213> Homo Sapien

<400> 84
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 20 25 30
 Ser Gln Pro Trp Thr Ser Asp Glu Thr Val Val Ala Gly Gly Thr
 35 40 45
 Val Val Leu Lys Cys Gln Val Lys Asp His Glu Asp Ser Ser Leu
 50 55 60
 Gln Trp Ser Asn Pro Ala Gln Gln Thr Leu Tyr Phe Gly Glu Lys
 65 70 75
 Arg Ala Leu Arg Asp Asn Arg Ile Gln Leu Val Thr Ser Thr Pro
 80 85 90
 His Glu Leu Ser Ile Ser Ile Ser Asn Val Ala Leu Ala Asp Glu
 95 100 105
 Gly Glu Tyr Thr Cys Ser Ile Phe Thr Met Pro Val Arg Thr Ala
 110 115 120
 Lys Ser Leu Val Thr Val Leu Gly Ile Pro Gln Lys Pro Ile Ile

P1618P2C3.txt

125	130	135												
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140								145						150
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	155							160						165
Arg	Lys	Gly	Asp	Gln	Glu	Leu	His	Gly	Glu	Pro	Thr	Arg	Ile	Gln
	170							175						180
Glu	Asp	Pro	Asn	Gly	Lys	Thr	Phe	Thr	Val	Ser	Ser	Ser	Val	Thr
	185							190						195
Phe	Gln	Val	Thr	Arg	Glu	Asp	Asp	Gly	Ala	Ser	Ile	Val	Cys	Ser
	200							205						210
Val	Asn	His	Glu	Ser	Leu	Lys	Gly	Ala	Asp	Arg	Ser	Thr	Ser	Gln
	215							220						225
Arg	Ile	Glu	Val	Leu	Tyr	Thr	Pro	Thr	Ala	Met	Ile	Arg	Pro	Asp
	230							235						240
Pro	Pro	His	Pro	Arg	Glu	Gly	Gln	Lys	Leu	Leu	Leu	His	Cys	Glu
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Gly	Arg	Gly	Asn	Pro	Val	Pro	Gln	Gln	Tyr	Leu	Trp	Glu	Lys	Glu
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Gly	Ser	Val	Pro	Pro	Leu	Lys	Met	Thr	Gln	Glu	Ser	Ala	Ile	
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Phe	Pro	Phe	Leu	Asn	Lys	Ser	Asp	Ser	Gly	Thr	Tyr	Gly	Cys	Thr
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Ala	Thr	Ser	Asn	Met	Gly	Ser	Tyr	Lys	Ala	Tyr	Tyr	Thr	Leu	Asn
	305							310						315
Val	Asn	Asp	Pro	Ser	Pro	Val	Pro	Ser	Ser	Ser	Ser	Thr	Tyr	His
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Ala	Ile	Ile	Gly	Gly	Ile	Val	Ala	Phe	Ile	Val	Phe	Leu	Leu	Leu
	335							340						345
Ile	Met	Leu	Ile	Phe	Leu	Gly	His	Tyr	Leu	Ile	Arg	His	Lys	Gly
	350							355						360
Thr	Tyr	Leu	Thr	His	Glu	Ala	Lys	Gly	Ser	Asp	Asp	Ala	Pro	Asp
	365							370						375
Ala	Asp	Thr	Ala	Ile	Ile	Asn	Ala	Glu	Gly	Gly	Gln	Ser	Gly	Gly
	380							385						390
Asp	Asp	Lys	Lys	Glu	Tyr	Phe	Ile							
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<210> 85

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

P1618P2C3.txt

<400> 85
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<210> 86
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 86
aacctggaat gtcaccgagc tg 22

<210> 87
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 87
cctagcacag tgacgagggg cttggc 26

<210> 88
<211> 50
<212> DNA
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<220>
<223> Synthetic Oligonucleotide Probe

<400> 88
aagacacagc caccctaaac tgtcagtctt ctgggagcaa gcctgcagcc 50

<210> 89
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Sequence

<400> 89
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<210> 90
<211> 2755
<212> DNA
<213> Homo Sapien

<400> 90
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tttggggcgc cgctggaaac gttacagggg acgttgcaa agagaagatc 250

P1618P2C3.txt

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gggcttcaca agtctgcagc gtttcactgc cccgacttcc cagtttacc 350
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aacccctggg agtgctcctg cacaattgtg ctttcaagc agtggcaga 1800

P1618P2C3.txt

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ggcagttgc acgaaggcat gaatgtattt taaataagta actttgactt 2750
ctgac 2755

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<211> 696
<212> PRT
<213> Homo Sapien

<400> 91
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20 25 30
Cys Asn Glu Ile Glu Gly Asp Leu His Val Asp Cys Glu Lys Lys
35 40 45
Gly Phe Thr Ser Leu Gln Arg Phe Thr Ala Pro Thr Ser Gln Phe
50 55 60
Tyr His Leu Phe Leu His Gly Asn Ser Leu Thr Arg Leu Phe Pro
65 70 75
Asn Glu Phe Ala Asn Phe Tyr Asn Ala Val Ser Leu His Met Glu
80 85 90

P1618P2C3.txt

Asn Asn Gly Leu His Glu Ile Val Pro Gly Ala Phe Leu Gly Leu
95 100 105
Gln Leu Val Lys Arg Leu His Ile Asn Asn Asn Lys Ile Lys Ser
110 115 120
Phe Arg Lys Gln Thr Phe Leu Gly Leu Asp Asp Leu Glu Tyr Leu
125 130 135
Gln Ala Asp Phe Asn Leu Leu Arg Asp Ile Asp Pro Gly Ala Phe
140 145 150
Gln Asp Leu Asn Lys Leu Glu Val Leu Ile Leu Asn Asp Asn Leu
155 160 165
Ile Ser Thr Leu Pro Ala Asn Val Phe Gln Tyr Val Pro Ile Thr
170 175 180
His Leu Asp Leu Arg Gly Asn Arg Leu Lys Thr Leu Pro Tyr Glu
185 190 195
Glu Val Leu Glu Gln Ile Pro Gly Ile Ala Glu Ile Leu Leu Glu
200 205 210
Asp Asn Pro Trp Asp Cys Thr Cys Asp Leu Leu Ser Leu Lys Glu
215 220 225
Trp Leu Glu Asn Ile Pro Lys Asn Ala Leu Ile Gly Arg Val Val
230 235 240
Cys Glu Ala Pro Thr Arg Leu Gln Gly Lys Asp Leu Asn Glu Thr
245 250 255
Thr Glu Gln Asp Leu Cys Pro Leu Lys Asn Arg Val Asp Ser Ser
260 265 270
Leu Pro Ala Pro Ala Gln Glu Glu Thr Phe Ala Pro Gly Pro
275 280 285
Leu Pro Thr Pro Phe Lys Thr Asn Gly Gln Glu Asp His Ala Thr
290 295 300
Pro Gly Ser Ala Pro Asn Gly Gly Thr Lys Ile Pro Gly Asn Trp
305 310 315
Gln Ile Lys Ile Arg Pro Thr Ala Ala Ile Ala Thr Gly Ser Ser
320 325 330
Arg Asn Lys Pro Leu Ala Asn Ser Leu Pro Cys Pro Gly Gly Cys
335 340 345
Ser Cys Asp His Ile Pro Gly Ser Gly Leu Lys Met Asn Cys Asn
350 355 360
Asn Arg Asn Val Ser Ser Leu Ala Asp Leu Lys Pro Lys Leu Ser
365 370 375
Asn Val Gln Glu Leu Phe Leu Arg Asp Asn Lys Ile His Ser Ile
380 385 390
Arg Lys Ser His Phe Val Asp Tyr Lys Asn Leu Ile Leu Leu Asp
395 400 405

P1618P2C3.txt

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440 445 450
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455 460 465
Thr Phe Asn Ala Met Pro Lys Leu Arg Ile Leu Ile Leu Asn Asn
470 475 480
Asn Leu Leu Arg Ser Leu Pro Val Asp Val Phe Ala Gly Val Ser
485 490 495
Leu Ser Lys Leu Ser Leu His Asn Asn Tyr Phe Met Tyr Leu Pro
500 505 510
Val Ala Gly Val Leu Asp Gln Leu Thr Ser Ile Ile Gln Ile Asp
515 520 525
Leu His Gly Asn Pro Trp Glu Cys Ser Cys Thr Ile Val Pro Phe
530 535 540
Lys Gln Trp Ala Glu Arg Leu Gly Ser Glu Val Leu Met Ser Asp
545 550 555
Leu Lys Cys Glu Thr Pro Val Asn Phe Phe Arg Lys Asp Phe Met
560 565 570
Leu Leu Ser Asn Asp Glu Ile Cys Pro Gln Leu Tyr Ala Arg Ile
575 580 585
Ser Pro Thr Leu Thr Ser His Ser Lys Asn Ser Thr Gly Leu Ala
590 595 600
Glu Thr Gly Thr His Ser Asn Ser Tyr Leu Asp Thr Ser Arg Val
605 610 615
Ser Ile Ser Val Leu Val Pro Gly Leu Leu Val Phe Val Thr
620 625 630
Ser Ala Phe Thr Val Val Gly Met Leu Val Phe Ile Leu Arg Asn
635 640 645
Arg Lys Arg Ser Lys Arg Arg Asp Ala Asn Ser Ser Ala Ser Glu
650 655 660
Ile Asn Ser Leu Gln Thr Val Cys Asp Ser Ser Tyr Trp His Asn
665 670 675
Gly Pro Tyr Asn Ala Asp Gly Ala His Arg Val Tyr Asp Cys Gly
680 685 690
Ser His Ser Leu Ser Asp
695

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<211> 22

P1618P2C3.txt

<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 92
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<210> 93
<211> 24
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 93
attgttgtgc aggctgagtt taag 24

<210> 94
<211> 45
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 94
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<210> 95
<211> 2226
<212> DNA
<213> Homo Sapien

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cagttggggg gtccgtcggg agcgagggcg gaggggaagg gagggggAAC 200
cgggttgggg aagccagctg tagagggcgg tgaccgcgtc ccagacacag 250
ctctgcgtcc tcgagcggga cagatccaag ttgggagcag ctctgcgtgc 300
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P1618P2C3.txt

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aggaacttac ttgtgttaact gacaatttct gcagaaatcc cccttcctct 1900
aaattccctt tactccactg aggagctaaa tcagaactgc acactccctc 1950
cctgatgata gaggaagtgg aagtgcctt aggatggta tactggggga 2000
ccgggttagtgc ctggggagag atatttctt atgtttattc ggagaatttg 2050
gagaagtgtat tgaactttc aagacattgg aaacaatacg aacacaataat 2100
aatttacatt aaaaaataat ttctacccaa atggaaagga aatgttctat 2150
gttggtcagg cttaggagtat attggttcga aatcccaggg aaaaaaataa 2200
aaataaaaaaa tttaaaggatt gttgat 2226

P1618P2C3.txt

<210> 96
<211> 490
<212> PRT
<213> Homo Sapien

<400> 96
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Pro Gly Pro Gly Gly Glu His Pro Thr Ala Asp Arg Ala Gly
20 25 30
Cys Ser Ala Ser Gly Ala Cys Tyr Ser Leu His His Ala Thr Met
35 40 45
Lys Arg Gln Ala Ala Glu Glu Ala Cys Ile Leu Arg Gly Gly Ala
50 55 60
Leu Ser Thr Val Arg Ala Gly Ala Glu Leu Arg Ala Val Leu Ala
65 70 75
Leu Leu Arg Ala Gly Pro Gly Pro Gly Gly Ser Lys Asp Leu
80 85 90
Leu Phe Trp Val Ala Leu Glu Arg Arg Arg Ser His Cys Thr Leu
95 100 105
Glu Asn Glu Pro Leu Arg Gly Phe Ser Trp Leu Ser Ser Asp Pro
110 115 120
Gly Gly Leu Glu Ser Asp Thr Leu Gln Trp Val Glu Glu Pro Gln
125 130 135
Arg Ser Cys Thr Ala Arg Arg Cys Ala Val Leu Gln Ala Thr Gly
140 145 150
Gly Val Glu Pro Ala Gly Trp Lys Glu Met Arg Cys His Leu Arg
155 160 165
Ala Asn Gly Tyr Leu Cys Lys Tyr Gln Phe Glu Val Leu Cys Pro
170 175 180
Ala Pro Arg Pro Gly Ala Ala Ser Asn Leu Ser Tyr Arg Ala Pro
185 190 195
Phe Gln Leu His Ser Ala Ala Leu Asp Phe Ser Pro Pro Gly Thr
200 205 210
Glu Val Ser Ala Leu Cys Arg Gly Gln Leu Pro Ile Ser Val Thr
215 220 225
Cys Ile Ala Asp Glu Ile Gly Ala Arg Trp Asp Lys Leu Ser Gly
230 235 240
Asp Val Leu Cys Pro Cys Pro Gly Arg Tyr Leu Arg Ala Gly Lys
245 250 255
Cys Ala Glu Leu Pro Asn Cys Leu Asp Asp Leu Gly Gly Phe Ala
260 265 270
Cys Glu Cys Ala Thr Gly Phe Glu Leu Gly Lys Asp Gly Arg Ser
275 280 285

P1618P2C3.txt

Cys Val Thr Ser Gly Glu Gly Gln Pro Thr Leu Gly Gly Thr Gly
290 295 300
Val Pro Thr Arg Arg Pro Pro Ala Thr Ala Thr Ser Pro Val Pro
305 310 315
Gln Arg Thr Trp Pro Ile Arg Val Asp Glu Lys Leu Gly Glu Thr
320 325 330
Pro Leu Val Pro Glu Gln Asp Asn Ser Val Thr Ser Ile Pro Glu
335 340 345
Ile Pro Arg Trp Gly Ser Gln Ser Thr Met Ser Thr Leu Gln Met
350 355 360
Ser Leu Gln Ala Glu Ser Lys Ala Thr Ile Thr Pro Ser Gly Ser
365 370 375
Val Ile Ser Lys Phe Asn Ser Thr Thr Ser Ser Ala Thr Pro Gln
380 385 390
Ala Phe Asp Ser Ser Ser Ala Val Val Phe Ile Phe Val Ser Thr
395 400 405
Ala Val Val Val Leu Val Ile Leu Thr Met Thr Val Leu Gly Leu
410 415 420
Val Lys Leu Cys Phe His Glu Ser Pro Ser Ser Gln Pro Arg Lys
425 430 435
Glu Ser Met Gly Pro Pro Gly Leu Glu Ser Asp Pro Glu Pro Ala
440 445 450
Ala Leu Gly Ser Ser Ser Ala His Cys Thr Asn Asn Gly Val Lys
455 460 465
Val Gly Asp Cys Asp Leu Arg Asp Arg Ala Glu Gly Ala Leu Leu
470 475 480
Ala Glu Ser Pro Leu Gly Ser Ser Asp Ala
485 490

<210> 97

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 97

tgaaaggaga tgcgtatgcca cctg 24

<210> 98

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 98

P1618P2C3.txt

tgaccagtgg ggaaggacag 20
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<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 99
acagagcaga ggggccttg 20

<210> 100
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 100
tcagggacaa gtgggtctc tccc 24

<210> 101
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 101
tcagggaaagg agtgtcagt tctg 24

<210> 102
<211> 50
<212> DNA
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<220>
<223> Synthetic Oligonucleotide Probe

<400> 102
acagctcccg atctcagttt cttgcattcgg ggacgaaatc ggcgctcgct 50

<210> 103
<211> 2026
<212> DNA
<213> Homo Sapien

<400> 103
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cggtgcgcgcgtg tgagagggatc ggcgcgggc agccgagcgc cgggtgtgagc 200
cagcgcgtgtt gcccgtgtt gcccgtgtt gaggcgcgtt ggtgcggagg 250
ggcgtgtgtt ccggcgcgcgcgtt cggccgtggggatc tgcaaaacccc gagcgtctac 300

P1618P2C3.txt

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catgtggtgg cattcttact ggagagtctg gatttattgg cagtgaagg 450
ttccctggag tgtaccctcc aaatagcaa tgtacttggaa aatcacagt 500
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aatggccagc gcattggccg cttctgtggc actttccggc ctggagccct 650
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gtaaaaggat atttagaat tgagttgtgt gaagatgtca aaaaaagatt 1900
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 aatattttta aaggaaaaaa aaaaaa 2026

<210> 104
 <211> 415
 <212> PRT
 <213> Homo Sapien

<400> 104
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 35 40 45
 Ser Glu Gly Phe Pro Gly Val Tyr Pro Pro Asn Ser Lys Cys Thr
 50 55 60
 Trp Lys Ile Thr Val Pro Glu Gly Lys Val Val Val Leu Asn Phe
 65 70 75
 Arg Phe Ile Asp Leu Glu Ser Asp Asn Leu Cys Arg Tyr Asp Phe
 80 85 90
 Val Asp Val Tyr Asn Gly His Ala Asn Gly Gln Arg Ile Gly Arg
 95 100 105
 Phe Cys Gly Thr Phe Arg Pro Gly Ala Leu Val Ser Ser Gly Asn
 110 115 120
 Lys Met Met Val Gln Met Ile Ser Asp Ala Asn Thr Ala Gly Asn
 125 130 135
 Gly Phe Met Ala Met Phe Ser Ala Ala Glu Pro Asn Glu Arg Gly
 140 145 150
 Asp Gln Tyr Cys Gly Gly Leu Leu Asp Arg Pro Ser Gly Ser Phe
 155 160 165
 Lys Thr Pro Asn Trp Pro Asp Arg Asp Tyr Pro Ala Gly Val Thr
 170 175 180
 Cys Val Trp His Ile Val Ala Pro Lys Asn Gln Leu Ile Glu Leu
 185 190 195
 Lys Phe Glu Lys Phe Asp Val Glu Arg Asp Asn Tyr Cys Arg Tyr
 200 205 210
 Asp Tyr Val Ala Val Phe Asn Gly Gly Glu Val Asn Asp Ala Arg
 215 220 225
 Arg Ile Gly Lys Tyr Cys Gly Asp Ser Pro Pro Ala Pro Ile Val
 230 235 240
 Ser Glu Arg Asn Glu Leu Leu Ile Gln Phe Leu Ser Asp Leu Ser

P1618P2C3.txt

245

250

255

Leu Thr Ala Asp Gly Phe Ile Gly His Tyr Ile Phe Arg Pro Lys
260 265 270

Lys Leu Pro Thr Thr Thr Glu Gln Pro Val Thr Thr Thr Phe Pro
275 280 285

Val Thr Thr Gly Leu Lys Pro Thr Val Ala Leu Cys Gln Gln Lys
290 295 300

Cys Arg Arg Thr Gly Thr Leu Glu Gly Asn Tyr Cys Ser Ser Asp
305 310 315

Phe Val Leu Ala Gly Thr Val Ile Thr Thr Ile Thr Arg Asp Gly
320 325 330

Ser Leu His Ala Thr Val Ser Ile Ile Asn Ile Tyr Lys Glu Gly
335 340 345

Asn Leu Ala Ile Gln Gln Ala Gly Lys Asn Met Ser Ala Arg Leu
350 355 360

Thr Val Val Cys Lys Gln Cys Pro Leu Leu Arg Arg Gly Leu Asn
365 370 375

Tyr Ile Ile Met Gly Gln Val Gly Glu Asp Gly Arg Gly Lys Ile
380 385 390

Met Pro Asn Ser Phe Ile Met Met Phe Lys Thr Lys Asn Gln Lys
395 400 405

Leu Leu Asp Ala Leu Lys Asn Lys Gln Cys
410 415

<210> 105

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 105

ccgattcata gacctcgaga gt 22

<210> 106

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 106

gtcaaggagt cctccacaat ac 22

<210> 107

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

P1618P2C3.txt

<223> Synthetic Oligonucleotide Probe

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gtgtacaatg gccatgccaa tggccagcgc attggccgct tctgt 45
<210> 108
<211> 1838
<212> DNA
<213> Homo Sapien
<400> 108
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cagcagatgt tctttggcat catcatctgt gcactggcca cgctggctgc 1250
taagggcgac ttgggtttca ccgcacatctt cattggggct gtggcggcca 1300

P1618P2C3.txt

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cgctgcccc agagcttggg ctgcccctcct gctggacact caggacagct 1450
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gcccgaggta ccaggcccgg gcagacaagg cccctggggt aaaaagttagc 1550
cctgaaggtg gataccatga gctcttcacc tggcggggac tggcaggctt 1600
cacaatgtgt gaatttcaaa agttttcct taatggtggc tgctagagct 1650
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gctccctcct gccagctgca tgctgccagt tcctgttctg tggcaccac 1750
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ggtcttggaa agttaaaaaa aaaaaaaaaa aaaaaaaaa 1838

<210> 109

<211> 420

<212> PRT

<213> Homo Sapien

<400> 109

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	20				25								30	
Pro	Ser	Pro	Pro	Pro	Gln	Ser	Ser	Pro	Pro	Pro	Gln	Pro	His	Pro
		35						40				45		
Cys	His	Thr	Cys	Arg	Gly	Leu	Val	Asp	Ser	Phe	Asn	Lys	Gly	Leu
			50				55					60		
Glu	Arg	Thr	Ile	Arg	Asp	Asn	Phe	Gly	Gly	Gly	Asn	Thr	Ala	Trp
			65				70					75		
Glu	Glu	Glu	Asn	Leu	Ser	Lys	Tyr	Lys	Asp	Ser	Glu	Thr	Arg	Leu
			80			85						90		
Val	Glu	Val	Leu	Glu	Gly	Val	Cys	Ser	Lys	Ser	Asp	Phe	Glu	Cys
			95				100					105		
His	Arg	Leu	Leu	Glu	Leu	Ser	Glu	Glu	Leu	Val	Glu	Ser	Trp	Trp
			110				115					120		
Phe	His	Lys	Gln	Gln	Glu	Ala	Pro	Asp	Leu	Phe	Gln	Trp	Leu	Cys
			125					130				135		
Ser	Asp	Ser	Leu	Lys	Leu	Cys	Cys	Pro	Ala	Gly	Thr	Phe	Gly	Pro
			140				145					150		
Ser	Cys	Leu	Pro	Cys	Pro	Gly	Gly	Thr	Glu	Arg	Pro	Cys	Gly	Gly
			155				160					165		
Tyr	Gly	Gln	Cys	Glu	Gly	Glu	Gly	Thr	Arg	Gly	Gly	Ser	Gly	His
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P1618P2C3.txt

Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys Gly Gln Cys
185 190 195
Gly Leu Gly Tyr Phe Glu Ala Glu Arg Asn Ala Ser His Leu Val
200 205 210
Cys Ser Ala Cys Phe Gly Pro Cys Ala Arg Cys Ser Gly Pro Glu
215 220 225
Glu Ser Asn Cys Leu Gln Cys Lys Lys Gly Trp Ala Leu His His
230 235 240
Leu Lys Cys Val Asp Ile Asp Glu Cys Gly Thr Glu Gly Ala Asn
245 250 255
Cys Gly Ala Asp Gln Phe Cys Val Asn Thr Glu Gly Ser Tyr Glu
260 265 270
Cys Arg Asp Cys Ala Lys Ala Cys Leu Gly Cys Met Gly Ala Gly
275 280 285
Pro Gly Arg Cys Lys Lys Cys Ser Pro Gly Tyr Gln Gln Val Gly
290 295 300
Ser Lys Cys Leu Asp Val Asp Glu Cys Glu Thr Glu Val Cys Pro
305 310 315
Gly Glu Asn Lys Gln Cys Glu Asn Thr Glu Gly Gly Tyr Arg Cys
320 325 330
Ile Cys Ala Glu Gly Tyr Lys Gln Met Glu Gly Ile Cys Val Lys
335 340 345
Glu Gln Ile Pro Glu Ser Ala Gly Phe Phe Ser Glu Met Thr Glu
350 355 360
Asp Glu Leu Val Val Leu Gln Gln Met Phe Phe Gly Ile Ile Ile
365 370 375
Cys Ala Leu Ala Thr Leu Ala Ala Lys Gly Asp Leu Val Phe Thr
380 385 390
Ala Ile Phe Ile Gly Ala Val Ala Ala Met Thr Gly Tyr Trp Leu
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Ser Glu Arg Ser Asp Arg Val Leu Glu Gly Phe Ile Lys Gly Arg
410 415 420

<210> 110

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 110

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<210> 111

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 111

attctgcgtg aacactgagg gc 22

<210> 112

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 112

atctgcttgt agccctcggc ac 22

<210> 113

<211> 1616

<212> DNA

<213> Homo Sapien

<220>

<221> unsure

<222> 1461

<223> unknown base

<400> 113

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cagccagagc ttccgagagg tggccggcag gttcctggcg ttggaggcca 350

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P1618P2C3.txt

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acattttatt ctaaaa 1616

<210> 114

<211> 366

<212> PRT

<213> Homo Sapien

<400> 114

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	20					25						30		
Leu	Leu	Arg	Gln	Leu	Gln	Leu	Lys	Glu	Val	Pro	Thr	Leu	Asp	Arg
		35					40						45	
Ala	Asp	Met	Glu	Glu	Leu	Val	Ile	Pro	Thr	His	Val	Arg	Ala	Gln
		50					55						60	
Tyr	Val	Ala	Leu	Leu	Gln	Arg	Ser	His	Gly	Asp	Arg	Ser	Arg	Gly
		65				70						75		
Lys	Arg	Phe	Ser	Gln	Ser	Phe	Arg	Glu	Val	Ala	Gly	Arg	Phe	Leu
		80				85						90		
Ala	Leu	Glu	Ala	Ser	Thr	His	Leu	Leu	Val	Phe	Gly	Met	Glu	Gln
		95					100						105	
Arg	Leu	Pro	Pro	Asn	Ser	Glu	Leu	Val	Gln	Ala	Val	Leu	Arg	Leu
			110					115					120	

P1618P2C3.txt

Phe Gln Glu Pro Val Pro Lys Ala Ala Leu His Arg His Gly Arg
125 130 135
Leu Ser Pro Arg Ser Ala Arg Ala Arg Val Thr Val Glu Trp Leu
140 145 150
Arg Val Arg Asp Asp Gly Ser Asn Arg Thr Ser Leu Ile Asp Ser
155 160 165
Arg Leu Val Ser Val His Glu Ser Gly Trp Lys Ala Phe Asp Val
170 175 180
Thr Glu Ala Val Asn Phe Trp Gln Gln Leu Ser Arg Pro Arg Gln
185 190 195
Pro Leu Leu Leu Gln Val Ser Val Gln Arg Glu His Leu Gly Pro
200 205 210
Leu Ala Ser Gly Ala His Lys Leu Val Arg Phe Ala Ser Gln Gly
215 220 225
Ala Pro Ala Gly Leu Gly Glu Pro Gln Leu Glu Leu His Thr Leu
230 235 240
Asp Leu Gly Asp Tyr Gly Ala Gln Gly Asp Cys Asp Pro Glu Ala
245 250 255
Pro Met Thr Glu Gly Thr Arg Cys Cys Arg Gln Glu Met Tyr Ile
260 265 270
Asp Leu Gln Gly Met Lys Trp Ala Glu Asn Trp Val Leu Glu Pro
275 280 285
Pro Gly Phe Leu Ala Tyr Glu Cys Val Gly Thr Cys Arg Gln Pro
290 295 300
Pro Glu Ala Leu Ala Phe Lys Trp Pro Phe Leu Gly Pro Arg Gln
305 310 315
Cys Ile Ala Ser Glu Thr Asp Ser Leu Pro Met Ile Val Ser Ile
320 325 330
Lys Glu Gly Gly Arg Thr Arg Pro Gln Val Val Ser Leu Pro Asn
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Pro Arg Arg Leu Gln Pro
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<210> 115

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 115

aggactgcc a taacttgcc t g 21

<210> 116

P1618P2C3.txt

<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 116
ataggaggta aagcagcgct gc 22

<210> 117
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 117
tgtgtggaca tagacgagtg ccgctaccgc tactgccagc accgc 45

<210> 118
<211> 1857
<212> DNA
<213> Homo Sapien

<400> 118
gtctgttccc aggagtccctt cggcggctgt tgtgtcagtg gcctgatcgc 50
gatggggaca aaggcgcaag tcgagaggaa actgttgtc ctcttcatat 100
tggcgatcct gttgtgctcc ctggcattgg gcagtgttac agtgcactct 150
tctgaacctg aagtcaaat tcctgagaat aatcctgtga agttgtcctg 200
tgcctactcg ggctttctt ctccccgtgt ggagtggaaag tttgaccaag 250
gagacaccac cagactcggt tgctataata acaagatcac agcttcctat 300
gaggaccggg tgaccttctt gccaactggg atcaccttca agtccgtgac 350
acgggaagac actgggacat acacttgtat ggtctctgag gaaggcggca 400
acagctatgg ggaggtcaag gtcaagctca tcgtgcttgt gcctccatcc 450
aagcctacag ttaacatccc ctcccttgcc accattggaa accgggcagt 500
gctgacatgc tcagaacaag atggttcccc accttctgaa tacacctgg 550
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tcccctgtca gcctctgata ctggagaata cagctgtgag gcacggaaatg 700
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cggaatgtgg gggtcatcgt ggcagccgtc cttgttaaccc tgattctcct 800
gggaatctt gttttggca tctggtttgc ctatagccga ggccactttg 850
acagaacaaa gaaaggact tcgagtaaga aggtgattta cagccagcct 900

P1618P2C3.txt

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agcctggtcg gtcaccgccc tatcatctgc atttgcctta ctcaggtgct 1000
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cttctacacc ccacaggggcc ccctacttct tcggatgtgt ttttaataat 1100
gtcagctatg tgccccatcc tccttcatgc cctccctccc tttcctacca 1150
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acagcaaaaa tggcgggggt cgccaggaatc tgcaactcaac tgcccacctg 1300
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tcacctgagg tcgggagttc gggatcagcc tgaccaacat ggagaaaccc 1750
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agctgctcag gaggctggca acaagagcaa aactccagct caaaaaaaaaa 1850
aaaaaaaaa 1857

<210> 119

<211> 299

<212> PRT

<213> Homo Sapien

<400> 119

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Ile Leu Ala Ile Leu Leu Cys Ser Leu Ala Leu Gly Ser Val Thr
20 25 30

Val His Ser Ser Glu Pro Glu Val Arg Ile Pro Glu Asn Asn Pro
35 40 45

Val Lys Leu Ser Cys Ala Tyr Ser Gly Phe Ser Ser Pro Arg Val
50 55 60

Glu Trp Lys Phe Asp Gln Gly Asp Thr Thr Arg Leu Val Cys Tyr
65 70 75

Asn Asn Lys Ile Thr Ala Ser Tyr Glu Asp Arg Val Thr Phe Leu
80 85 90

P1618P2C3.txt

Pro Thr Gly Ile Thr Phe Lys Ser Val Thr Arg Glu Asp Thr Gly
95 100 105
Thr Tyr Thr Cys Met Val Ser Glu Glu Gly Gly Asn Ser Tyr Gly
110 115 120
Glu Val Lys Val Lys Leu Ile Val Leu Val Pro Pro Ser Lys Pro
125 130 135
Thr Val Asn Ile Pro Ser Ser Ala Thr Ile Gly Asn Arg Ala Val
140 145 150
Leu Thr Cys Ser Glu Gln Asp Gly Ser Pro Pro Ser Glu Tyr Thr
155 160 165
Trp Phe Lys Asp Gly Ile Val Met Pro Thr Asn Pro Lys Ser Thr
170 175 180
Arg Ala Phe Ser Asn Ser Ser Tyr Val Leu Asn Pro Thr Thr Gly
185 190 195
Glu Leu Val Phe Asp Pro Leu Ser Ala Ser Asp Thr Gly Glu Tyr
200 205 210
Ser Cys Glu Ala Arg Asn Gly Tyr Gly Thr Pro Met Thr Ser Asn
215 220 225
Ala Val Arg Met Glu Ala Val Glu Arg Asn Val Gly Val Ile Val
230 235 240
Ala Ala Val Leu Val Thr Leu Ile Leu Leu Gly Ile Leu Val Phe
245 250 255
Gly Ile Trp Phe Ala Tyr Ser Arg Gly His Phe Asp Arg Thr Lys
260 265 270
Lys Gly Thr Ser Ser Lys Lys Val Ile Tyr Ser Gln Pro Ser Ala
275 280 285
Arg Ser Glu Gly Glu Phe Lys Gln Thr Ser Ser Phe Leu Val
290 295

<210> 120

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 120

tcgcggagct gtgttctgtt tccc 24

<210> 121

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 121

P1618P2C3.txt

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<210> 122
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 122
acacctggtt caaagatggg 20

<210> 123
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 123
taggaagagt tgctgaaggc acgg 24

<210> 124
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 124
ttgccttact caggtgctac 20

<210> 125
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 125
actcagcagt ggttaggaaag 20

<210> 126
<211> 1210
<212> DNA
<213> Homo Sapien

<400> 126
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gcgcagggtt gacgtggcg aacaggggct ctgggcctgg cgctgctgct 100
gctgctcggc ctcggactag gcctggaggc cgccgcgagc ccgtttcca 150
ccccgacctc tgcccaggcc gcaggccccca gtcaggctc gtgcccaccc 200
accaagtcc agtgccgcac cagtggctt aacgtggccccc tcacctggcg 250
ctgcgacagg gacttggact gcagcgatgg cagcgatgag gaggagtgca 300

P1618P2C3.txt

ggattgagcc atgtacccag aaagggcaat gcccacccgc cccctggcctc 350
ccctgcccgt gcaccggcgt cagtgactgc tctggggaa ctgacaagaa 400
actgcgcaac tgcagccgccc tggcctgcct agcaggcgag ctccgttgca 450
cgctgagcga tgactgcatt ccactcacgt ggcgctgcga cggccaccca 500
gactgtcccg actccagcga cgagctcgcc tgtggaacca atgagatcct 550
cccggaaggg gatgccacaa ccatggggcc ccctgtgacc ctggagagt 600
tcacctctct caggaatgcc acaaccatgg ggccccctgt gaccctggag 650
agtgtccct ctgtcggaa tgccacatcc tcctctgcgc gagaccagtc 700
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aagttgcttc 1210

<210> 127

<211> 282

<212> PRT

<213> Homo Sapien

<400> 127

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	20							25					30	
Leu	Glu	Ala	Ala	Ala	Ser	Pro	Leu	Ser	Thr	Pro	Thr	Ser	Ala	Gln
		35						40					45	
Ala	Ala	Gly	Pro	Ser	Ser	Gly	Ser	Cys	Pro	Pro	Thr	Lys	Phe	Gln
			50					55					60	
Cys	Arg	Thr	Ser	Gly	Leu	Cys	Val	Pro	Leu	Thr	Trp	Arg	Cys	Asp
			65					70					75	
Arg	Asp	Leu	Asp	Cys	Ser	Asp	Gly	Ser	Asp	Glu	Glu	Glu	Cys	Arg
			80					85					90	

P1618P2C3.txt

Ile Glu Pro Cys Thr Gln Lys Gly Gln Cys Pro Pro Pro Pro Gly
95 100 105

Leu Pro Cys Pro Cys Thr Gly Val Ser Asp Cys Ser Gly Gly Thr
110 115 120

Asp Lys Lys Leu Arg Asn Cys Ser Arg Leu Ala Cys Leu Ala Gly
125 130 135

Glu Leu Arg Cys Thr Leu Ser Asp Asp Cys Ile Pro Leu Thr Trp
140 145 150

Arg Cys Asp Gly His Pro Asp Cys Pro Asp Ser Ser Asp Glu Leu
155 160 165

Gly Cys Gly Thr Asn Glu Ile Leu Pro Glu Gly Asp Ala Thr Thr
170 175 180

Met Gly Pro Pro Val Thr Leu Glu Ser Val Thr Ser Leu Arg Asn
185 190 195

Ala Thr Thr Met Gly Pro Pro Val Thr Leu Glu Ser Val Pro Ser
200 205 210

Val Gly Asn Ala Thr Ser Ser Ser Ala Gly Asp Gln Ser Gly Ser
215 220 225

Pro Thr Ala Tyr Gly Val Ile Ala Ala Ala Ala Val Leu Ser Ala
230 235 240

Ser Leu Val Thr Ala Thr Leu Leu Leu Leu Ser Trp Leu Arg Ala
245 250 255

Gln Glu Arg Leu Arg Pro Leu Gly Leu Leu Val Ala Met Lys Glu
260 265 270

Ser Leu Leu Leu Ser Glu Gln Lys Thr Ser Leu Pro
275 280

<210> 128

<211> 24

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 128

aagttccagt gccgcaccag tggc 24

<210> 129

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 129

ttggttccac agccgagctc gtcg 24

<210> 130

<211> 50

P1618P2C3.txt

<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 130
gaggaggagt gcaggattga gccatgtacc cagaaaggc aatgcccacc 50

<210> 131
<211> 1843
<212> DNA
<213> Homo Sapien

<220>
<221> unsure
<222> 1837
<223> unknown base

<400> 131
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agctgcgtgc atgagaccca cagactcttgc caagctggat gccctctgtg 150
gatgaaagat gtatcatgga atgaacccga gcaatggaga tggatttcta 200
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tgtcgcgatg atggaacgtg gaataatctg cccatctgtc aaggctgcct 700
gagacctcta gcctcttcta atggctatgt aaacatctct gagctccaga 750
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cgctacaacc acggaactgt ggtggagttt tactgcgtc ctggctacag 1000
cctcaccaggc gactacaagt acatcacctg ccagtatggc gagggtttc 1050
cttcttatca agtctactgc atcaaatcg agcaaacgtg gcccagcacc 1100

P1618P2C3.txt

catgagaccc tcctgaccac gtggaagatt gtggcgttca cggcaaccag 1150
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agttcaaggc ccacttccc cccagggggc ctccccggag ttccagcagt 1250
gaccctgact ttgtgggtt agacggcgtg cccgtcatgc tcccgtccta 1300
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ccttccttc tcttggttt agacaaatgt aaacaaagct ctgatcctta 1750
aaattgctat gctgatagag tggtgaggc tggaagctt atcaagtcc 1800
gtttcttctt gacacagact gattaaaaat taaaagnaaa aaa 1843

<210> 132

<211> 490

<212> PRT

<213> Homo Sapien

<400> 132

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Gln	Gln	Gln	Gln	Gln	Gln	Pro	Gln	Ser	Pro	Gln	Arg	Leu	Leu	
						20		25				30		
Ala	Val	Ile	Leu	Trp	Phe	Gln	Leu	Ala	Leu	Cys	Phe	Gly	Pro	Ala
				35				40				45		
Gln	Leu	Thr	Gly	Gly	Phe	Asp	Asp	Leu	Gln	Val	Cys	Ala	Asp	Pro
				50				55				60		
Gly	Ile	Pro	Glu	Asn	Gly	Phe	Arg	Thr	Pro	Ser	Gly	Gly	Val	Phe
				65				70				75		
Phe	Glu	Gly	Ser	Val	Ala	Arg	Phe	His	Cys	Gln	Asp	Gly	Phe	Lys
				80				85				90		
Leu	Lys	Gly	Ala	Thr	Lys	Arg	Leu	Cys	Leu	Lys	His	Phe	Asn	Gly
				95				100				105		
Thr	Leu	Gly	Trp	Ile	Pro	Ser	Asp	Asn	Ser	Ile	Cys	Val	Gln	Glu
				110				115				120		
Asp	Cys	Arg	Ile	Pro	Gln	Ile	Glu	Asp	Ala	Glu	Ile	His	Asn	Lys
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P1618P2C3.txt

Thr Tyr Arg His Gly Glu Lys Leu Ile Ile Thr Cys His Glu Gly
140 145 150
Phe Lys Ile Arg Tyr Pro Asp Leu His Asn Met Val Ser Leu Cys
155 160 165
Arg Asp Asp Gly Thr Trp Asn Asn Leu Pro Ile Cys Gln Gly Cys
170 175 180
Leu Arg Pro Leu Ala Ser Ser Asn Gly Tyr Val Asn Ile Ser Glu
185 190 195
Leu Gln Thr Ser Phe Pro Val Gly Thr Val Ile Ser Tyr Arg Cys
200 205 210
Phe Pro Gly Phe Lys Leu Asp Gly Ser Ala Tyr Leu Glu Cys Leu
215 220 225
Gln Asn Leu Ile Trp Ser Ser Ser Pro Pro Arg Cys Leu Ala Leu
230 235 240
Glu Ala Gln Val Cys Pro Leu Pro Pro Met Val Ser His Gly Asp
245 250 255
Phe Val Cys His Pro Arg Pro Cys Glu Arg Tyr Asn His Gly Thr
260 265 270
Val Val Glu Phe Tyr Cys Asp Pro Gly Tyr Ser Leu Thr Ser Asp
275 280 285
Tyr Lys Tyr Ile Thr Cys Gln Tyr Gly Glu Trp Phe Pro Ser Tyr
290 295 300
Gln Val Tyr Cys Ile Lys Ser Glu Gln Thr Trp Pro Ser Thr His
305 310 315
Glu Thr Leu Leu Thr Thr Trp Lys Ile Val Ala Phe Thr Ala Thr
320 325 330
Ser Val Leu Leu Val Leu Leu Leu Val Ile Leu Ala Arg Met Phe
335 340 345
Gln Thr Lys Phe Lys Ala His Phe Pro Pro Arg Gly Pro Pro Arg
350 355 360
Ser Ser Ser Ser Asp Pro Asp Phe Val Val Val Asp Gly Val Pro
365 370 375
Val Met Leu Pro Ser Tyr Asp Glu Ala Val Ser Gly Gly Leu Ser
380 385 390
Ala Leu Gly Pro Gly Tyr Met Ala Ser Val Gly Gln Gly Cys Pro
395 400 405
Leu Pro Val Asp Asp Gln Ser Pro Pro Ala Tyr Pro Gly Ser Gly
410 415 420
Asp Thr Asp Thr Gly Pro Gly Glu Ser Glu Thr Cys Asp Ser Val
425 430 435
Ser Gly Ser Ser Glu Leu Leu Gln Ser Leu Tyr Ser Pro Pro Arg
440 445 450

P1618P2C3.txt

Cys Gln Glu Ser Thr His Pro Ala Ser Asp Asn Pro Asp Ile Ile
455 460 465

Ala Ser Thr Ala Glu Glu Val Ala Ser Thr Ser Pro Gly Ile His
470 475 480

His Ala His Trp Val Leu Phe Leu Arg Asn
485 490

<210> 133

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 133

atccctatc gctgcttcc cg 23

<210> 134

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 134

accaggatc gcagtaaaac tcc 23

<210> 135

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 135

atttaaactt gatgggtctg cgtatcttga gtgcttacaa aaccttatct 50

<210> 136

<211> 1815

<212> DNA

<213> Homo Sapien

<400> 136

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gtggcctaga gatgctgtc cgcgggtgc agttgtcg cacgcctctg 100

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cgagtcgggc catgaggccgc ggaaccgcgc tacaggccgt gctgctggcc 200

gtgctgtcgg tggggctgcg ggcgcgacg ggtcgccctgc tgagtgcctc 250

ggatttggac ctcagaggag ggcagccagt ctgccgggaa gggacacaga 300

ggccttgtta taaaagtcat tacttccatg atacttctcg aagactgaac 350

P1618P2C3.txt

ttttaggaag ccaaagaagc ctgcaggagg gatggaggcc agctagtcag 400
catcgagtct gaagatgaac agaaaactgat agaaaagttc attgaaaacc 450
tcttgccatc ttaggtgac ttctggattg ggctcaggag gcgtgaggag 500
aaacaaagca atagcacagc ctgccaggac cttagtgcgg 550
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atgaacaagc ttagatcagg tcctgtggat gagcatgtgg tccccacgac 1450
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aatccagaat ctttcaaag cccacatatg gtgcacagg ttggcctgtg 1750
catcggaat tctcatatct gttttttca aagaataaaa tcaaataaag 1800
agcagggaaaa aaaaa 1815

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<211> 382
<212> PRT

<213> Homo Sapien

<400> 137
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 20 25 30
 Asp Leu Asp Leu Arg Gly Gly Gln Pro Val Cys Arg Gly Gly Thr
 35 40 45
 Gln Arg Pro Cys Tyr Lys Val Ile Tyr Phe His Asp Thr Ser Arg
 50 55 60
 Arg Leu Asn Phe Glu Glu Ala Lys Glu Ala Cys Arg Arg Asp Gly
 65 70 75
 Gly Gln Leu Val Ser Ile Glu Ser Glu Asp Glu Gln Lys Leu Ile
 80 85 90
 Glu Lys Phe Ile Glu Asn Leu Leu Pro Ser Asp Gly Asp Phe Trp
 95 100 105
 Ile Gly Leu Arg Arg Arg Glu Glu Lys Gln Ser Asn Ser Thr Ala
 110 115 120
 Cys Gln Asp Leu Tyr Ala Trp Thr Asp Gly Ser Ile Ser Gln Phe
 125 130 135
 Arg Asn Trp Tyr Val Asp Glu Pro Ser Cys Gly Ser Glu Val Cys
 140 145 150
 Val Val Met Tyr His Gln Pro Ser Ala Pro Ala Gly Ile Gly Gly
 155 160 165
 Pro Tyr Met Phe Gln Trp Asn Asp Asp Arg Cys Asn Met Lys Asn
 170 175 180
 Asn Phe Ile Cys Lys Tyr Ser Asp Glu Lys Pro Ala Val Pro Ser
 185 190 195
 Arg Glu Ala Glu Gly Glu Glu Thr Glu Leu Thr Thr Pro Val Leu
 200 205 210
 Pro Glu Glu Thr Gln Glu Glu Asp Ala Lys Lys Thr Phe Lys Glu
 215 220 225
 Ser Arg Glu Ala Ala Leu Asn Leu Ala Tyr Ile Leu Ile Pro Ser
 230 235 240
 Ile Pro Leu Leu Leu Leu Val Val Thr Thr Val Val Cys Trp
 245 250 255
 Val Trp Ile Cys Arg Lys Arg Lys Arg Glu Gln Pro Asp Pro Ser
 260 265 270
 Thr Lys Lys Gln His Thr Ile Trp Pro Ser Pro His Gln Gly Asn
 275 280 285
 Ser Pro Asp Leu Glu Val Tyr Asn Val Ile Arg Lys Gln Ser Glu
 290 295 300

P1618P2C3.txt

Ala Asp Leu Ala Glu Thr Arg Pro Asp Leu Lys Asn Ile Ser Phe
305 310 315
Arg Val Cys Ser Gly Glu Ala Thr Pro Asp Asp Met Ser Cys Asp
320 325 330
Tyr Asp Asn Met Ala Val Asn Pro Ser Glu Ser Gly Phe Val Thr
335 340 345
Leu Val Ser Val Glu Ser Gly Phe Val Thr Asn Asp Ile Tyr Glu
350 355 360
Phe Ser Pro Asp Gln Met Gly Arg Ser Lys Glu Ser Gly Trp Val
365 370 375
Glu Asn Glu Ile Tyr Gly Tyr
380

<210> 138

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 138

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<210> 139

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 139

aagccaaaga agcctgcagg aggg 24

<210> 140

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 140

cagtccaagc ataaagggtcc tggc 24

<210> 141

<211> 1514

<212> DNA

<213> Homo Sapien

<400> 141

ggggcttccc tcagggccgg gaggcacagc ggtccctgct tgctgaagg 50

ctggatgtac gcatccgcag gttccgcgg acttggggc gcccgtgag 100

ccccggcgcc cgcagaagac ttgtgtttgc ctccctgcagc ctcaacccgg 150

P1618P2C3.txt

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tgtggacccc agtggcgtc ctgacctcgc tggcgtaactg cctgcaccag 250
cggcggtgg ccctggccga gctgcaggag gccgatggcc agtgtccgg 300
cgaccgcgcg ctgctgaagt tgaaaatggt gcaggtcgtg tttcgacacg 350
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aaccggcagc tattagaggt cccacccaa actcagttt attacacagt 450
caccaatcta gctggtggtc cgaaaccata ttctccttac gactctcaat 500
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cagggaaagt cttcagatgg cagtaggccc attcccttac atcctagaga 1100
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gaccctgggg attttgacc acaaattggcc accgttgct gttgacctga 1250
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tattaccacg ggaaggagca ggtgcccggaga ggttgccctg atgggctctg 1350
cccgctggac atgttcttgc atgcccatttc agtttataacc ttaagccca 1400
aaaaatacca tgcactctgc tctcaaactc aggtgatggaa agttggaaat 1450
gaagagtaac tgatttataa aagcaggatg tggatggatggaaat 1500
gccttataac aatg 1514

<210> 142

<211> 428

<212> PRT

<213> Homo Sapien

<400> 142

Met Ile Thr Gly Val Phe Ser Met Arg Leu Trp Thr Pro Val Gly

P1618P2C3.txt

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				20				25					30	
Leu	Ala	Glu	Leu	Gln	Glu	Ala	Asp	Gly	Gln	Cys	Pro	Val	Asp	Arg
				35				40					45	
Ser	Leu	Leu	Lys	Leu	Lys	Met	Val	Gln	Val	Val	Phe	Arg	His	Gly
				50				55					60	
Ala	Arg	Ser	Pro	Leu	Lys	Pro	Leu	Pro	Leu	Glu	Glu	Gln	Val	Glu
				65				70					75	
Trp	Asn	Pro	Gln	Leu	Leu	Glu	Val	Pro	Pro	Gln	Thr	Gln	Phe	Asp
				80				85					90	
Tyr	Thr	Val	Thr	Asn	Leu	Ala	Gly	Gly	Pro	Lys	Pro	Tyr	Ser	Pro
				95				100					105	
Tyr	Asp	Ser	Gln	Tyr	His	Glu	Thr	Thr	Leu	Lys	Gly	Gly	Met	Phe
				110				115					120	
Ala	Gly	Gln	Leu	Thr	Lys	Val	Gly	Met	Gln	Gln	Met	Phe	Ala	Leu
				125				130					135	
Gly	Glu	Arg	Leu	Arg	Lys	Asn	Tyr	Val	Glu	Asp	Ile	Pro	Phe	Leu
				140				145					150	
Ser	Pro	Thr	Phe	Asn	Pro	Gln	Glu	Val	Phe	Ile	Arg	Ser	Thr	Asn
				155				160					165	
Ile	Phe	Arg	Asn	Leu	Glu	Ser	Thr	Arg	Cys	Leu	Leu	Ala	Gly	Leu
				170				175					180	
Phe	Gln	Cys	Gln	Lys	Glu	Gly	Pro	Ile	Ile	Ile	His	Thr	Asp	Glu
				185				190					195	
Ala	Asp	Ser	Glu	Val	Leu	Tyr	Pro	Asn	Tyr	Gln	Ser	Cys	Trp	Ser
				200				205					210	
Leu	Arg	Gln	Arg	Thr	Arg	Gly	Arg	Arg	Gln	Thr	Ala	Ser	Leu	Gln
				215				220					225	
Pro	Gly	Ile	Ser	Glu	Asp	Leu	Lys	Lys	Val	Lys	Asp	Arg	Met	Gly
				230				235					240	
Ile	Asp	Ser	Ser	Asp	Lys	Val	Asp	Phe	Phe	Ile	Leu	Leu	Asp	Asn
				245				250					255	
Val	Ala	Ala	Glu	Gln	Ala	His	Asn	Leu	Pro	Ser	Cys	Pro	Met	Leu
				260				265					270	
Lys	Arg	Phe	Ala	Arg	Met	Ile	Glu	Gln	Arg	Ala	Val	Asp	Thr	Ser
				275				280					285	
Leu	Tyr	Ile	Leu	Pro	Lys	Glu	Asp	Arg	Glu	Ser	Leu	Gln	Met	Ala
				290				295					300	
Val	Gly	Pro	Phe	Leu	His	Ile	Leu	Glu	Ser	Asn	Leu	Leu	Lys	Ala
				305				310					315	
Met	Asp	Ser	Ala	Thr	Ala	Pro	Asp	Lys	Ile	Arg	Lys	Leu	Tyr	Leu

P1618P2C3.txt
320 325 330

Tyr Ala Ala His Asp Val Thr Phe Ile Pro Leu Leu Met Thr Leu
335 340 345
Gly Ile Phe Asp His Lys Trp Pro Pro Phe Ala Val Asp Leu Thr
350 355 360
Met Glu Leu Tyr Gln His Leu Glu Ser Lys Glu Trp Phe Val Gln
365 370 375
Leu Tyr Tyr His Gly Lys Glu Gln Val Pro Arg Gly Cys Pro Asp
380 385 390
Gly Leu Cys Pro Leu Asp Met Phe Leu Asn Ala Met Ser Val Tyr
395 400 405
Thr Leu Ser Pro Glu Lys Tyr His Ala Leu Cys Ser Gln Thr Gln
410 415 420
Val Met Glu Val Gly Asn Glu Glu
425

<210> 143
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 143
ccaaactacca aagctgctgg agcc 24

<210> 144
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 144
gcagctctat taccacggga agga 24

<210> 145
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 145
tccttcccggt ggtaatagag ctgc 24

<210> 146
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

P1618P2C3.txt

<400> 146

ggcagagaac cagaggccgg aggagactgc ctctttacag ccagg 45

<210> 147

<211> 1686

<212> DNA

<213> Homo Sapien

<400> 147

ctcctttaa catacttgc aactaaaacta aatattgctg cttggggacc 50

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gctctgctat tctccttgcatt cttggccatt tgccaccagac ctggattcct 150

agcgtctcca tctggagtgc ggctgggtggg gggcctccac cgctgtgaag 200

ggcgggtgga ggtggAACAG aaaggccagt gggcaccgt gtgtgatgac 250

ggctgggaca ttaaggacgt ggctgtgtt tgccggagc tgggctgtgg 300

agctgccagc ggaaccccta gtggattttt gtatgagcca ccagcagaaa 350

aagagcaaaa ggtcctcatc caatcagtca gttgcacagg aacagaagat 400

acattggctc agtgtgagca agaagaagtt tatgattgtt cacatgatga 450

agatgctggg gcatcggtg agaacccaga gagctcttc tccccagtc 500

cagaggggtgt caggctggct gacggccctg ggcattgcaa gggacgcgtg 550

gaagtgaagc accagaacca gtggatacc gtgtgccaga caggctggag 600

cctccgggccc gcaaagggtgg tgtgccggca gctggatgt gggagggctg 650

tactgactca aaaacgctgc aacaagcatg cctatggccg aaaacccatc 700

tggctgagcc agatgtcatg ctcaggacga gaagcaaccc ttcaaggattt 750

cccttctggg cttgggggaa agaacacctg caaccatgtt gaagacacgt 800

gggtcgaatg tgaagatccc ttgacttga gacttaggg aggagacaac 850

ctctgctctg ggcgacttggaa ggtgctgcac aagggcgtat ggggctctgt 900

ctgtgatgac aactggggag aaaaggagga ccaggtggta tgcaagcaac 950

tgggctgtgg gaagtccctc tctccctcct tcagagaccg gaaatgctat 1000

ggccctgggg ttggccgcat ctggctggat aatgttcgtt gctcaggggaa 1050

ggagcagtcc ctggagcagt gcccacacag attttggggg tttcacgact 1100

gcacccacca ggaagatgtg gctgtcatct gctcagtgtt ggtgggcatc 1150

atctaattctg ttgacttgcctt gaatagaaga aaaacacaga agaaggagc 1200

atttactgtc tacatgactg catggatgtt acactgtatct tcttctgccc 1250

ttggacttggg aacttataactt ggtccccctg attctcaggc cttcagatgtt 1300

ggatcagaac ttacaacatc aggtcttagtt ctcaggccat cagacatgtt 1350

P1618P2C3.txt

ttggaactac atcaccacct ttccatgtc tccacattgc acacagcaga 1400
ttcccgccct ccataattgt gtgtatcaac tacttaata cattctaca 1450
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tatttacaat aataaagata gcactatgtg ttcaaa 1686

<210> 148
<211> 347
<212> PRT
<213> Homo Sapien

<400> 148
Met Ala Leu Leu Phe Ser Leu Ile Leu Ala Ile Cys Thr Arg Pro
1 5 10 15
Gly Phe Leu Ala Ser Pro Ser Gly Val Arg Leu Val Gly Gly Leu
20 25 30
His Arg Cys Glu Gly Arg Val Glu Val Glu Gln Lys Gly Gln Trp
35 40 45
Gly Thr Val Cys Asp Asp Gly Trp Asp Ile Lys Asp Val Ala Val
50 55 60
Leu Cys Arg Glu Leu Gly Cys Gly Ala Ala Ser Gly Thr Pro Ser
65 70 75
Gly Ile Leu Tyr Glu Pro Pro Ala Glu Lys Glu Gln Lys Val Leu
80 85 90
Ile Gln Ser Val Ser Cys Thr Gly Thr Glu Asp Thr Leu Ala Gln
95 100 105
Cys Glu Gln Glu Glu Val Tyr Asp Cys Ser His Asp Glu Asp Ala
110 115 120
Gly Ala Ser Cys Glu Asn Pro Glu Ser Ser Phe Ser Pro Val Pro
125 130 135
Glu Gly Val Arg Leu Ala Asp Gly Pro Gly His Cys Lys Gly Arg
140 145 150
Val Glu Val Lys His Gln Asn Gln Trp Tyr Thr Val Cys Gln Thr
155 160 165
Gly Trp Ser Leu Arg Ala Ala Lys Val Val Cys Arg Gln Leu Gly
170 175 180
Cys Gly Arg Ala Val Leu Thr Gln Lys Arg Cys Asn Lys His Ala
185 190 195
Tyr Gly Arg Lys Pro Ile Trp Leu Ser Gln Met Ser Cys Ser Gly
200 205 210

P1618P2C3.txt

Arg Glu Ala Thr Leu Gln Asp Cys Pro Ser Gly Pro Trp Gly Lys
215 220 225
Asn Thr Cys Asn His Asp Glu Asp Thr Trp Val Glu Cys Glu Asp
230 235 240
Pro Phe Asp Leu Arg Leu Val Gly Gly Asp Asn Leu Cys Ser Gly
245 250 255
Arg Leu Glu Val Leu His Lys Gly Val Trp Gly Ser Val Cys Asp
260 265 270
Asp Asn Trp Gly Glu Lys Glu Asp Gln Val Val Cys Lys Gln Leu
275 280 285
Gly Cys Gly Lys Ser Leu Ser Pro Ser Phe Arg Asp Arg Lys Cys
290 295 300
Tyr Gly Pro Gly Val Gly Arg Ile Trp Leu Asp Asn Val Arg Cys
305 310 315
Ser Gly Glu Glu Gln Ser Leu Glu Gln Cys Gln His Arg Phe Trp
320 325 330
Gly Phe His Asp Cys Thr His Gln Glu Asp Val Ala Val Ile Cys
335 340 345
Ser Val

<210> 149

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Probe

<400> 149

ttagctcat cacccatcc 24

<210> 150

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Probe

<400> 150

ggctcataca aaataccact aggg 24

<210> 151

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Probe

<400> 151

ggccctccac cgctgtgaag ggcgggtgga ggtggAACAG aaaggccagt 50

P1618P2C3.txt

<210> 152
<211> 1427
<212> DNA
<213> Homo Sapien

<400> 152
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ctcgacctcg acccacgcgt ccgcggacgc gtgggcggac gcgtgggccc 100
gctaccagga agagtctgcc gaaggtgaag gccatggact tcacacac 150
cacagccatc ctgccccgtc tggtcggtc cctggcgac ttcggccctc 200
tccggctgtc gcagtgggtg cgcggaaagg cctacctgcg gaatgctgtg 250
gtgggtatca caggcgccac ctcagggtcg ggcaaaagaat gtgcaaaagt 300
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ccctagaaga gctcatcaga gaacttaccg cttctcatgc caccaaggtg 400
cagacacaca agccttactt ggtgacccatc gacccacag actctggggc 450
catagttgca gcagcagctg agatcctgca gtgcttggc tatgtcgaca 500
tacttgtcaa caatgctggg atcagctacc gtggtaccat catggacacc 550
acagtggatg tggacaagag ggtcatggag acaaactact ttggcccaagt 600
tgctctaacg aaagcactcc tgccctccat gatcaagagg aggcaaggcc 650
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cagggtgagg ggaaacactt aaggaataaa tatggagctg gggtttaaca 1300
ctaaaaacta gaaataaaaca tctcaaacag taaaaaaaaaaa aaaaaaggc 1350
ggccgcgact ctagactcgaa cctgcagaag cttggccgccc atggcccaac 1400
ttgtttatttgc cagcttataa tggttac 1427

P1618P2C3.txt

<210> 153
<211> 310
<212> PRT
<213> Homo Sapien

<400> 153
Met Asp Phe Ile Thr Ser Thr Ala Ile Leu Pro Leu Leu Phe Gly
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Cys Leu Gly Val Phe Gly Leu Phe Arg Leu Leu Gln Trp Val Arg
20 25 30
Gly Lys Ala Tyr Leu Arg Asn Ala Val Val Val Ile Thr Gly Ala
35 40 45
Thr Ser Gly Leu Gly Lys Glu Cys Ala Lys Val Phe Tyr Ala Ala
50 55 60
Gly Ala Lys Leu Val Leu Cys Gly Arg Asn Gly Gly Ala Leu Glu
65 70 75
Glu Leu Ile Arg Glu Leu Thr Ala Ser His Ala Thr Lys Val Gln
80 85 90
Thr His Lys Pro Tyr Leu Val Thr Phe Asp Leu Thr Asp Ser Gly
95 100 105
Ala Ile Val Ala Ala Ala Glu Ile Leu Gln Cys Phe Gly Tyr
110 115 120
Val Asp Ile Leu Val Asn Asn Ala Gly Ile Ser Tyr Arg Gly Thr
125 130 135
Ile Met Asp Thr Thr Val Asp Val Asp Lys Arg Val Met Glu Thr
140 145 150
Asn Tyr Phe Gly Pro Val Ala Leu Thr Lys Ala Leu Leu Pro Ser
155 160 165
Met Ile Lys Arg Arg Gln Gly His Ile Val Ala Ile Ser Ser Ile
170 175 180
Gln Gly Lys Met Ser Ile Pro Phe Arg Ser Ala Tyr Ala Ala Ser
185 190 195
Lys His Ala Thr Gln Ala Phe Phe Asp Cys Leu Arg Ala Glu Met
200 205 210
Glu Gln Tyr Glu Ile Glu Val Thr Val Ile Ser Pro Gly Tyr Ile
215 220 225
His Thr Asn Leu Ser Val Asn Ala Ile Thr Ala Asp Gly Ser Arg
230 235 240
Tyr Gly Val Met Asp Thr Thr Ala Gln Gly Arg Ser Pro Val
245 250 255
Glu Val Ala Gln Asp Val Leu Ala Ala Val Gly Lys Lys Lys Lys
260 265 270
Asp Val Ile Leu Ala Asp Leu Leu Pro Ser Leu Ala Val Tyr Leu
275 280 285

P1618P2C3.txt

Arg Thr Leu Ala Pro Gly Leu Phe Phe Ser Leu Met Ala Ser Arg
290 295 300

Ala Arg Lys Glu Arg Lys Ser Lys Asn Ser
305 310

<210> 154

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 154

ggtgctaaac tggtgctctg tggc 24

<210> 155

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 155

cagggcaaga tgagcattcc 20

<210> 156

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 156

tcatactgtt ccatctcgcc acgc 24

<210> 157

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 157

aatgggtgggg ccctagaaga gctcatcaga gaactcaccg cttctcatgc 50

<210> 158

<211> 1771

<212> DNA

<213> Homo Sapien

<400> 158

cccacgcgtc cgctgggttt agatcgagca accctctaaa agcagtttag 50

atggtaaaaa aaaaaaaaaa acacaccaaa cgctcgccgc cacaaaagg 100

atgaaatttc ttctggacat cctcctgctt ctccccgttac tgatcgtctg 150

ctccctagag tccttcgtga agcttttat tcctaagagg agaaaatcag 200
tcaccggcga aatcgtgctg attacaggag ctgggcattgg aattgggaga 250
ctgactgcct atgaatttgc taaacttaaa agcaagctgg ttctctggga 300
tataaataag catggactgg aggaaacacgc tgccaaatgc aaggactgg 350
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tacagctctg caaagaaggt gaaggcagaa attggagatg ttagtattt 450
agtaaataat gctggtagtgc tctatacatc agatttgc tctacacaag 500
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tgtcaactgtg gcttcggcag ctggacatgt ctcggcccc ttcttactgg 650
cttactgttc aagcaagttt gctgctgtt gatttcataa aactttgaca 700
gatgaactgg ctgccttaca aataactgga gtcaaaacaa catgtctgtg 750
tcctaatttc gtaaacactg gcttcataa aaatccaatg acaagtttgg 800
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agaaaacttca agctctctaa ataaaatgaa ggactatatac tagtggatttgc 1450
tcacaatgaa tatcatgaac tctcaatggg taggtttcat cctacccatt 1500
gccactctgt ttccctgagag atacctcaca ttccaaatgcc aaacatttct 1550
gcacaggaa gcttagaggtg gatacacgtg ttgcaagtat aaaagcatca 1600
ctgggattta aggagaatttgc agagaatgtt cccacaaatg gcagcaataa 1650
taaatggatc acacttaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa 1700
aaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa 1750

aaaaaaaaaaaa aaaaaaaaaa a 1771

<210> 159

<211> 300

<212> PRT

<213> Homo Sapien

<400> 159

Met Lys Phe Leu Leu Asp Ile Leu Leu Leu Pro Leu Leu Ile
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Val Cys Ser Leu Glu Ser Phe Val Lys Leu Phe Ile Pro Lys Arg
20 25 30

Arg Lys Ser Val Thr Gly Glu Ile Val Leu Ile Thr Gly Ala Gly
35 40 45

His Gly Ile Gly Arg Leu Thr Ala Tyr Glu Phe Ala Lys Leu Lys
50 55 60

Ser Lys Leu Val Leu Trp Asp Ile Asn Lys His Gly Leu Glu Glu
65 70 75

Thr Ala Ala Lys Cys Lys Gly Leu Gly Ala Lys Val His Thr Phe
80 85 90

Val Val Asp Cys Ser Asn Arg Glu Asp Ile Tyr Ser Ser Ala Lys
95 100 105

Lys Val Lys Ala Glu Ile Gly Asp Val Ser Ile Leu Val Asn Asn
110 115 120

Ala Gly Val Val Tyr Thr Ser Asp Leu Phe Ala Thr Gln Asp Pro
125 130 135

Gln Ile Glu Lys Thr Phe Glu Val Asn Val Leu Ala His Phe Trp
140 145 150

Thr Thr Lys Ala Phe Leu Pro Ala Met Thr Lys Asn Asn His Gly
155 160 165

His Ile Val Thr Val Ala Ser Ala Ala Gly His Val Ser Val Pro
170 175 180

Phe Leu Leu Ala Tyr Cys Ser Ser Lys Phe Ala Ala Val Gly Phe
185 190 195

His Lys Thr Leu Thr Asp Glu Leu Ala Ala Leu Gln Ile Thr Gly
200 205 210

Val Lys Thr Thr Cys Leu Cys Pro Asn Phe Val Asn Thr Gly Phe
215 220 225

Ile Lys Asn Pro Ser Thr Ser Leu Gly Pro Thr Leu Glu Pro Glu
230 235 240

Glu Val Val Asn Arg Leu Met His Gly Ile Leu Thr Glu Gln Lys
245 250 255

Met Ile Phe Ile Pro Ser Ser Ile Ala Phe Leu Thr Thr Leu Glu
260 265 270

P1618P2C3.txt

Arg Ile Leu Pro Glu Arg Phe Leu Ala Val Leu Lys Arg Lys Ile
275 280 285

Ser Val Lys Phe Asp Ala Val Ile Gly Tyr Lys Met Lys Ala Gln
290 295 300

<210> 160

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 160

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<210> 161

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 161

atcccatgca tcagcctgtt tacc 24

<210> 162

<211> 48

<212> DNA

<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

<400> 162

gctgggttag tctatacatac agatttgttt gctacacaag atcctcag 48

<210> 163

<211> 2076

<212> DNA

<213> Homo Sapien

<400> 163

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ttgggtccat gtgaaaggta attgtttcgc tggcctgtt gatgcctggc 150

ccctgtatgc ggctgtttcg ctccctatac agaagtgttt ccatgccacc 200

taagggagac tcaggacagc cattatttct cacccttac attgaagctg 250

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ctgaacatga agagttatgc cggcttcctc accgtgaata agacttacaa 350

cagcaacctc ttcttctgggt tcttcccagc tcagatacag ccagaagatg 400

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tattatataaaaataaaagtaaaaaaaa 2076

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 <212> PRT
 <213> Homo Sapien

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 35 40 45
 Thr Pro Tyr Ile Glu Ala Gly Lys Ile Gln Lys Gly Arg Glu Leu
 50 55 60
 Ser Leu Val Gly Pro Phe Pro Gly Leu Asn Met Lys Ser Tyr Ala
 65 70 75
 Gly Phe Leu Thr Val Asn Lys Thr Tyr Asn Ser Asn Leu Phe Phe
 80 85 90
 Trp Phe Phe Pro Ala Gln Ile Gln Pro Glu Asp Ala Pro Val Val
 95 100 105
 Leu Trp Leu Gln Gly Gly Pro Gly Gly Ser Ser Met Phe Gly Leu
 110 115 120
 Phe Val Glu His Gly Pro Tyr Val Val Thr Ser Asn Met Thr Leu
 125 130 135
 Arg Asp Arg Asp Phe Pro Trp Thr Thr Thr Leu Ser Met Leu Tyr
 140 145 150
 Ile Asp Asn Pro Val Gly Thr Gly Phe Ser Phe Thr Asp Asp Thr
 155 160 165
 His Gly Tyr Ala Val Asn Glu Asp Asp Val Ala Arg Asp Leu Tyr
 170 175 180
 Ser Ala Leu Ile Gln Phe Phe Gln Ile Phe Pro Glu Tyr Lys Asn
 185 190 195
 Asn Asp Phe Tyr Val Thr Gly Glu Ser Tyr Ala Gly Lys Tyr Val
 200 205 210
 Pro Ala Ile Ala His Leu Ile His Ser Leu Asn Pro Val Arg Glu
 215 220 225
 Val Lys Ile Asn Leu Asn Gly Ile Ala Ile Gly Asp Gly Tyr Ser
 230 235 240
 Asp Pro Glu Ser Ile Ile Gly Gly Tyr Ala Glu Phe Leu Tyr Gln
 245 250 255
 Ile Gly Leu Leu Asp Glu Lys Gln Lys Lys Tyr Phe Gln Lys Gln
 260 265 270

P1618P2C3.txt

Cys His Glu Cys Ile Glu His Ile Arg Lys Gln Asn Trp Phe Glu
275 280 285
Ala Phe Glu Ile Leu Asp Lys Leu Leu Asp Gly Asp Leu Thr Ser
290 295 300
Asp Pro Ser Tyr Phe Gln Asn Val Thr Gly Cys Ser Asn Tyr Tyr
305 310 315
Asn Phe Leu Arg Cys Thr Glu Pro Glu Asp Gln Leu Tyr Tyr Val
320 325 330
Lys Phe Leu Ser Leu Pro Glu Val Arg Gln Ala Ile His Val Gly
335 340 345
Asn Gln Thr Phe Asn Asp Gly Thr Ile Val Glu Lys Tyr Leu Arg
350 355 360
Glu Asp Thr Val Gln Ser Val Lys Pro Trp Leu Thr Glu Ile Met
365 370 375
Asn Asn Tyr Lys Val Leu Ile Tyr Asn Gly Gln Leu Asp Ile Ile
380 385 390
Val Ala Ala Ala Leu Thr Glu Arg Ser Leu Met Gly Met Asp Trp
395 400 405
Lys Gly Ser Gln Glu Tyr Lys Lys Ala Glu Lys Lys Val Trp Lys
410 415 420
Ile Phe Lys Ser Asp Ser Glu Val Ala Gly Tyr Ile Arg Gln Ala
425 430 435
Gly Asp Phe His Gln Val Ile Ile Arg Gly Gly Gly His Ile Leu
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Pro Tyr Asp Gln Pro Leu Arg Ala Phe Asp Met Ile Asn Arg Phe
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<210> 165

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 165

ttccatgcca cctaaggag actc 24

<210> 166

<211> 24

<212> DNA

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<220>

<223> Synthetic Oligonucleotide Probe

<400> 166

tggatgaggt gtgcaatggc tggc 24

P1618P2C3.txt

<210> 167
<211> 24
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<223> Synthetic Oligonucleotide Probe

<400> 167
agctctcaga ggctggtcata aggg 24

<210> 168
<211> 50
<212> DNA
<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

<400> 168
gtcggccctt tcccaggact gaacatgaag agttatgccc gcttcctcac 50

<210> 169
<211> 2477
<212> DNA
<213> Homo Sapien

<400> 169
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agcagggcac tctcactcag ggtgaccagc tccttgccctc tctgtggata 200
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P1618P2C3.txt

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ttaagaaggtaacatctgcaa.aagcaaa 2477

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<211> 552

<212> PRT

<213> Homo Sapien

<400> 170

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35 40 45Arg Leu Leu Thr Ala Ala Pro Leu Ser Met Glu Gln Arg Gln Pro
50 55 60Trp Pro Arg Ala Leu Glu Val Asp Ser Arg Ser Val Val Leu Leu
65 70 75Ser Val Val Trp Val Leu Leu Ala Pro Pro Ala Ala Gly Met Pro
80 85 90Gln Phe Ser Thr Phe His Ser Glu Asn Arg Asp Trp Thr Phe Asn
95 100 105His Leu Thr Val His Gln Gly Thr Gly Ala Val Tyr Val Gly Ala
110 115 120Ile Asn Arg Val Tyr Lys Leu Thr Gly Asn Leu Thr Ile Gln Val
125 130 135Ala His Lys Thr Gly Pro Glu Glu Asp Asn Lys Ser Arg Tyr Pro
140 145 150Pro Leu Ile Val Gln Pro Cys Ser Glu Val Leu Thr Leu Thr Asn
155 160 165Asn Val Asn Lys Leu Leu Ile Ile Asp Tyr Ser Glu Asn Arg Leu
170 175 180Leu Ala Cys Gly Ser Leu Tyr Gln Gly Val Cys Lys Leu Leu Arg
185 190 195Leu Asp Asp Leu Phe Ile Leu Val Glu Pro Ser His Lys Lys Glu
200 205 210His Tyr Leu Ser Ser Val Asn Lys Thr Gly Thr Met Tyr Gly Val
215 220 225Ile Val Arg Ser Glu Gly Glu Asp Gly Lys Leu Phe Ile Gly Thr
230 235 240Ala Val Asp Gly Lys Gln Asp Tyr Phe Pro Thr Leu Ser Ser Arg
245 250 255Lys Leu Pro Arg Asp Pro Glu Ser Ser Ala Met Leu Asp Tyr Glu
260 265 270

P1618P2C3.txt

Leu His Ser Asp Phe Val Ser Ser Leu Ile Lys Ile Pro Ser Asp
275 280 285
Thr Leu Ala Leu Val Ser His Phe Asp Ile Phe Tyr Ile Tyr Gly
290 295 300
Phe Ala Ser Gly Gly Phe Val Tyr Phe Leu Thr Val Gln Pro Glu
305 310 315
Thr Pro Glu Gly Val Ala Ile Asn Ser Ala Gly Asp Leu Phe Tyr
320 325 330
Thr Ser Arg Ile Val Arg Leu Cys Lys Asp Asp Pro Lys Phe His
335 340 345
Ser Tyr Val Ser Leu Pro Phe Gly Cys Thr Arg Ala Gly Val Glu
350 355 360
Tyr Arg Leu Leu Gln Ala Ala Tyr Leu Ala Lys Pro Gly Asp Ser
365 370 375
Leu Ala Gln Ala Phe Asn Ile Thr Ser Gln Asp Asp Val Leu Phe
380 385 390
Ala Ile Phe Ser Lys Gly Gln Lys Gln Tyr His His Pro Pro Asp
395 400 405
Asp Ser Ala Leu Cys Ala Phe Pro Ile Arg Ala Ile Asn Leu Gln
410 415 420
Ile Lys Glu Arg Leu Gln Ser Cys Tyr Gln Gly Glu Gly Asn Leu
425 430 435
Glu Leu Asn Trp Leu Leu Gly Lys Asp Val Gln Cys Thr Lys Ala
440 445 450
Pro Val Pro Ile Asp Asp Asn Phe Cys Gly Leu Asp Ile Asn Gln
455 460 465
Pro Leu Gly Gly Ser Thr Pro Val Glu Gly Leu Thr Leu Tyr Thr
470 475 480
Thr Ser Arg Asp Arg Met Thr Ser Val Ala Ser Tyr Val Tyr Asn
485 490 495
Gly Tyr Ser Val Val Phe Val Gly Thr Lys Ser Gly Lys Leu Lys
500 505 510
Lys Val Arg Val Tyr Glu Phe Arg Cys Ser Asn Ala Ile His Leu
515 520 525
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<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

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<210> 172
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<220>
<223> Synthetic Oligonucleotide Probe

<400> 172
cttctgccct ttggagaaga tggc 24

<210> 173
<211> 43
<212> DNA
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<223> Synthetic oligonucleotide probe

<400> 173
ggactcactg gcccaggcct tcaatatcac cagccaggac gat 43

<210> 174
<211> 3106
<212> DNA
<213> Homo Sapien

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<222> 1683
<223> unknown base

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P1618P2C3.txt

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<211> 636

<212> PRT

<213> Homo Sapien

<220>

<221> unsure

<222> 539

<223> unknown amino acid

<400> 175

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Asp Trp Ser Thr Leu Val Pro Leu Arg Leu Arg His Arg Gln Leu
35 40 45

Gly Leu Gln Ala Lys Gly Trp Asn Phe Met Leu Glu Asp Ser Thr
50 55 60

Phe Trp Ile Phe Gly Gly Ser Ile His Tyr Phe Arg Val Pro Arg
65 70 75

P1618P2C3.txt

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110 115 120
Val Leu Met Ala Ala Glu Ile Gly Leu Trp Val Ile Leu Arg Pro
125 130 135
Gly Pro Tyr Ile Cys Ser Glu Met Asp Leu Gly Gly Leu Pro Ser
140 145 150
Trp Leu Leu Gln Asp Pro Gly Met Arg Leu Arg Thr Thr Tyr Lys
155 160 165
Gly Phe Thr Glu Ala Val Asp Leu Tyr Phe Asp His Leu Met Ser
170 175 180
Arg Val Val Pro Leu Gln Tyr Lys Arg Gly Gly Pro Ile Ile Ala
185 190 195
Val Gln Val Glu Asn Glu Tyr Gly Ser Tyr Asn Lys Asp Pro Ala
200 205 210
Tyr Met Pro Tyr Val Lys Lys Ala Leu Glu Asp Arg Gly Ile Val
215 220 225
Glu Leu Leu Leu Thr Ser Asp Asn Lys Asp Gly Leu Ser Lys Gly
230 235 240
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245 250 255
Glu Leu Gln Leu Leu Thr Thr Phe Leu Phe Asn Val Gln Gly Thr
260 265 270
Gln Pro Lys Met Val Met Glu Tyr Trp Thr Gly Trp Phe Asp Ser
275 280 285
Trp Gly Gly Pro His Asn Ile Leu Asp Ser Ser Glu Val Leu Lys
290 295 300
Thr Val Ser Ala Ile Val Asp Ala Gly Ser Ser Ile Asn Leu Tyr
305 310 315
Met Phe His Gly Gly Thr Asn Phe Gly Phe Met Asn Gly Ala Met
320 325 330
His Phe His Asp Tyr Lys Ser Asp Val Thr Ser Tyr Asp Tyr Asp
335 340 345
Ala Val Leu Thr Glu Ala Gly Asp Tyr Thr Ala Lys Tyr Met Lys
350 355 360
Leu Arg Asp Phe Phe Gly Ser Ile Ser Gly Ile Pro Leu Pro Pro
365 370 375
Pro Pro Asp Leu Leu Pro Lys Met Pro Tyr Glu Pro Leu Thr Pro
380 385 390

P1618P2C3.txt

Val Leu Tyr Leu Ser Leu Trp Asp Ala Leu Lys Tyr Leu Gly Glu
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Pro Ile Lys Ser Glu Lys Pro Ile Asn Met Glu Asn Leu Pro Val
410 415 420
Asn Gly Gly Asn Gly Gln Ser Phe Gly Tyr Ile Leu Tyr Glu Thr
425 430 435
Ser Ile Thr Ser Ser Gly Ile Leu Ser Gly His Val His Asp Arg
440 445 450
Gly Gln Val Phe Val Asn Thr Val Ser Ile Gly Phe Leu Asp Tyr
455 460 465
Lys Thr Thr Lys Ile Ala Val Pro Leu Ile Gln Gly Tyr Thr Val
470 475 480
Leu Arg Ile Leu Val Glu Asn Arg Gly Arg Val Asn Tyr Gly Glu
485 490 495
Asn Ile Asp Asp Gln Arg Lys Gly Leu Ile Gly Asn Leu Tyr Leu
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Asn Asp Ser Pro Leu Lys Asn Phe Arg Ile Tyr Ser Leu Asp Met
515 520 525
Lys Lys Ser Phe Phe Gln Arg Phe Gly Leu Asp Lys Trp Xaa Ser
530 535 540
Leu Pro Glu Thr Pro Thr Leu Pro Ala Phe Phe Leu Gly Ser Leu
545 550 555
Ser Ile Ser Ser Thr Pro Cys Asp Thr Phe Leu Lys Leu Glu Gly
560 565 570
Trp Glu Lys Gly Val Val Phe Ile Asn Gly Gln Asn Leu Gly Arg
575 580 585
Tyr Trp Asn Ile Gly Pro Gln Lys Thr Leu Tyr Leu Pro Gly Pro
590 595 600
Trp Leu Ser Ser Gly Ile Asn Gln Val Ile Val Phe Glu Glu Thr
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agacgcaggc acctacgcca aaggggagca aagccgggct cggcccgagg 150
Page 110

P1618P2C3.txt

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<212> PRT

<213> Homo Sapien

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Phe	Arg	Tyr	Val	Ser	Gly	Ser	Leu	His	Tyr	Phe	Arg	Val	Pro	Arg
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Val	Leu	Trp	Ala	Asp	Arg	Leu	Leu	Lys	Met	Arg	Trp	Ser	Gly	Leu
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P1618P2C3.txt

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155 160 165
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170 175 180
Ile Gln Val Glu Asn Glu Tyr Gly Ser Tyr Arg Ala Cys Asp Phe
185 190 195
Ser Tyr Met Arg His Leu Ala Gly Leu Phe Arg Ala Leu Leu Gly
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215 220 225
Cys Gly Ser Leu Arg Gly Leu Tyr Thr Thr Val Asp Phe Gly Pro
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Ala Asp Asn Met Thr Lys Ile Phe Thr Leu Leu Arg Lys Tyr Glu
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275 280 285
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Cys Pro Arg Gly Pro Ile His Ser Ile Leu Pro Met Thr Phe Glu
395 400 405
Ala Val Lys Gln Asp His Gly Phe Met Leu Tyr Arg Thr Tyr Met
410 415 420
Thr His Thr Ile Phe Glu Pro Thr Pro Phe Trp Val Pro Asn Asn
425 430 435

P1618P2C3.txt

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Leu Tyr Val Pro Arg Phe Leu Leu Phe Pro Arg Gly Ala Leu Asn
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605 610 615
Val Gln Phe Leu Asp Lys Pro Ile Leu Asn Ser Thr Ser Thr Leu
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<211> 24

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P1618P2C3.txt

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<211> 50

<212> DNA

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<223> Synthetic Oligonucleotide Probe

<400> 180

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<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 181

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<210> 182

<211> 24

<212> DNA

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<223> Synthetic Oligonucleotide Probe

<400> 182

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<210> 183

<211> 50

<212> DNA

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<211> 1947

<212> DNA

<213> Homo Sapien

<400> 184

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P1618P2C3.txt

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P1618P2C3.txt

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50 55 60
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65 70 75
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80 85 90
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170 175 180
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230 235 240
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245 250 255

P1618P2C3.txt

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Ile Glu Glu Ile Ile Ser Phe Gln His Leu Lys Arg Leu Thr Cys
320 325 330
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335 340 345
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350 355 360
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365 370 375
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Lys Val Gly Gln Leu Ser Gln Leu Thr Gln Leu Glu Leu Lys Gly
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Leu Lys Lys Ser Gly Leu Val Val Glu Asp His Leu Phe Asp Thr
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P1618P2C3.txt

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<211> 47

<212> DNA

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<212> DNA

<213> Homo Sapien

<400> 189

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P1618P2C3.txt

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<211> 607

<212> PRT

<213> Homo Sapien

<400> 190

Met	Glu	Leu	Val	Arg	Arg	Leu	Met	Pro	Leu	Thr	Leu	Leu	Ile	Leu
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Ser	Cys	Leu	Ala	Glu	Leu	Thr	Met	Ala	Glu	Ala	Glu	Gly	Asn	Ala
		20					25						30	
Ser	Cys	Thr	Val	Ser	Leu	Gly	Gly	Ala	Asn	Met	Ala	Glu	Thr	His
			35					40					45	
Lys	Ala	Met	Ile	Leu	Gln	Leu	Asn	Pro	Ser	Glu	Asn	Cys	Thr	Trp
				50				55					60	
Thr	Ile	Glu	Arg	Pro	Glu	Asn	Lys	Ser	Ile	Arg	Ile	Ile	Phe	Ser
			65				70						75	
Tyr	Val	Gln	Leu	Asp	Pro	Asp	Gly	Ser	Cys	Glu	Ser	Glu	Asn	Ile
			80				85						90	
Lys	Val	Phe	Asp	Gly	Thr	Ser	Ser	Asn	Gly	Pro	Leu	Leu	Gly	Gln
			95					100					105	
Val	Cys	Ser	Lys	Asn	Asp	Tyr	Val	Pro	Val	Phe	Glu	Ser	Ser	Ser
			110					115					120	
Ser	Thr	Leu	Thr	Phe	Gln	Ile	Val	Thr	Asp	Ser	Ala	Arg	Ile	Gln
			125					130					135	
Arg	Thr	Val	Phe	Val	Phe	Tyr	Tyr	Phe	Phe	Ser	Pro	Asn	Ile	Ser
			140					145					150	
Ile	Pro	Asn	Cys	Gly	Gly	Tyr	Leu	Asp	Thr	Leu	Glu	Gly	Ser	Phe
			155					160					165	
Thr	Ser	Pro	Asn	Tyr	Pro	Lys	Pro	His	Pro	Glu	Leu	Ala	Tyr	Cys
			170					175					180	
Val	Trp	His	Ile	Gln	Val	Glu	Lys	Asp	Tyr	Lys	Ile	Lys	Leu	Asn

P1618P2C3.txt

185

190

195

Phe Lys Glu Ile Phe Leu Glu Ile Asp Lys Gln Cys Lys Phe Asp
 200 205 210
 Phe Leu Ala Ile Tyr Asp Gly Pro Ser Thr Asn Ser Gly Leu Ile
 215 220 225
 Gly Gln Val Cys Gly Arg Val Thr Pro Thr Phe Glu Ser Ser Ser
 230 235 240
 Asn Ser Leu Thr Val Val Leu Ser Thr Asp Tyr Ala Asn Ser Tyr
 245 250 255
 Arg Gly Phe Ser Ala Ser Tyr Thr Ser Ile Tyr Ala Glu Asn Ile
 260 265 270
 Asn Thr Thr Ser Leu Thr Cys Ser Ser Asp Arg Met Arg Val Ile
 275 280 285
 Ile Ser Lys Ser Tyr Leu Glu Ala Phe Asn Ser Asn Gly Asn Asn
 290 295 300
 Leu Gln Leu Lys Asp Pro Thr Cys Arg Pro Lys Leu Ser Asn Val
 305 310 315
 Val Glu Phe Ser Val Pro Leu Asn Gly Cys Gly Thr Ile Arg Lys
 320 325 330
 Val Glu Asp Gln Ser Ile Thr Tyr Thr Asn Ile Ile Thr Phe Ser
 335 340 345
 Ala Ser Ser Thr Ser Glu Val Ile Thr Arg Gln Lys Gln Leu Gln
 350 355 360
 Ile Ile Val Lys Cys Glu Met Gly His Asn Ser Thr Val Glu Ile
 365 370 375
 Ile Tyr Ile Thr Glu Asp Asp Val Ile Gln Ser Gln Asn Ala Leu
 380 385 390
 Gly Lys Tyr Asn Thr Ser Met Ala Leu Phe Glu Ser Asn Ser Phe
 395 400 405
 Glu Lys Thr Ile Leu Glu Ser Pro Tyr Tyr Val Asp Leu Asn Gln
 410 415 420
 Thr Leu Phe Val Gln Val Ser Leu His Thr Ser Asp Pro Asn Leu
 425 430 435
 Val Val Phe Leu Asp Thr Cys Arg Ala Ser Pro Thr Ser Asp Phe
 440 445 450
 Ala Ser Pro Thr Tyr Asp Leu Ile Lys Ser Gly Cys Ser Arg Asp
 455 460 465
 Glu Thr Cys Lys Val Tyr Pro Leu Phe Gly His Tyr Gly Arg Phe
 470 475 480
 Gln Phe Asn Ala Phe Lys Phe Leu Arg Ser Met Ser Ser Val Tyr
 485 490 495
 Leu Gln Cys Lys Val Leu Ile Cys Asp Ser Ser Asp His Gln Ser

500 P1618P2C3.txt 505 510

Arg Cys Asn Gln Gly Cys Val Ser Arg Ser Lys Arg Asp Ile Ser
515 520 525

Ser Tyr Lys Trp Lys Thr Asp Ser Ile Ile Gly Pro Ile Arg Leu
530 535 540

Lys Arg Asp Arg Ser Ala Ser Gly Asn Ser Gly Phe Gln His Glu
545 550 555

Thr His Ala Glu Glu Thr Pro Asn Gln Pro Phe Asn Ser Val His
560 565 570

Leu Phe Ser Phe Met Val Leu Ala Leu Asn Val Val Thr Val Ala
575 580 585

Thr Ile Thr Val Arg His Phe Val Asn Gln Arg Ala Asp Tyr Lys
590 595 600

Tyr Gln Lys Leu Gln Asn Tyr
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<210> 191

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 191

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<210> 192

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 192

tttgcgtacg attcgaagggt gg 22

<210> 193

<211> 47

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 193

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<210> 194

<211> 2362

<212> DNA

<213> Homo Sapien

<400> 194

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P1618P2C3.txt

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gagtgttttc cgtgcccagc ttccggtagcg agtggttctg gtggatttgg 300
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<210> 195

<211> 467

<212> PRT

<213> Homo Sapien

<400> 195

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Leu	Leu	Leu	Leu	Leu	Leu	Pro	Pro	Pro	Pro	Cys	Pro	Ala	His	Ser
					20				25					30
Ala	Thr	Arg	Phe	Asp	Pro	Thr	Trp	Glu	Ser	Leu	Asp	Ala	Arg	Gln
					35			40					45	
Leu	Pro	Ala	Trp	Phe	Asp	Gln	Ala	Lys	Phe	Gly	Ile	Phe	Ile	His
				50				55				60		
Trp	Gly	Val	Phe	Ser	Val	Pro	Ser	Phe	Gly	Ser	Glu	Trp	Phe	Trp
				65				70				75		
Trp	Tyr	Trp	Gln	Lys	Glu	Lys	Ile	Pro	Lys	Tyr	Val	Glu	Phe	Met
				80				85				90		
Lys	Asp	Asn	Tyr	Pro	Pro	Ser	Phe	Lys	Tyr	Glu	Asp	Phe	Gly	Pro
				95				100				105		
Leu	Phe	Thr	Ala	Lys	Phe	Phe	Asn	Ala	Asn	Gln	Trp	Ala	Asp	Ile
				110				115				120		
Phe	Gln	Ala	Ser	Gly	Ala	Lys	Tyr	Ile	Val	Leu	Thr	Ser	Lys	His

P1618P2C3.txt

125	130	135
His Glu Gly Phe Thr Leu Trp Gly Ser Glu Tyr Ser Trp Asn Trp		
140	145	150
Asn Ala Ile Asp Glu Gly Pro Lys Arg Asp Ile Val Lys Glu Leu		
155	160	165
Glu Val Ala Ile Arg Asn Arg Thr Asp Leu Arg Phe Gly Leu Tyr		
170	175	180
Tyr Ser Leu Phe Glu Trp Phe His Pro Leu Phe Leu Glu Asp Glu		
185	190	195
Ser Ser Ser Phe His Lys Arg Gln Phe Pro Val Ser Lys Thr Leu		
200	205	210
Pro Glu Leu Tyr Glu Leu Val Asn Asn Tyr Gln Pro Glu Val Leu		
215	220	225
Trp Ser Asp Gly Asp Gly Gly Ala Pro Asp Gln Tyr Trp Asn Ser		
230	235	240
Thr Gly Phe Leu Ala Trp Leu Tyr Asn Glu Ser Pro Val Arg Gly		
245	250	255
Thr Val Val Thr Asn Asp Arg Trp Gly Ala Gly Ser Ile Cys Lys		
260	265	270
His Gly Gly Phe Tyr Thr Cys Ser Asp Arg Tyr Asn Pro Gly His		
275	280	285
Leu Leu Pro His Lys Trp Glu Asn Cys Met Thr Ile Asp Lys Leu		
290	295	300
Ser Trp Gly Tyr Arg Arg Glu Ala Gly Ile Ser Asp Tyr Leu Thr		
305	310	315
Ile Glu Glu Leu Val Lys Gln Leu Val Glu Thr Val Ser Cys Gly		
320	325	330
Gly Asn Leu Leu Met Asn Ile Gly Pro Thr Leu Asp Gly Thr Ile		
335	340	345
Ser Val Val Phe Glu Glu Arg Leu Arg Gln Val Gly Ser Trp Leu		
350	355	360
Lys Val Asn Gly Glu Ala Ile Tyr Glu Thr Tyr Thr Trp Arg Ser		
365	370	375
Gln Asn Asp Thr Val Thr Pro Asp Val Trp Tyr Thr Ser Lys Pro		
380	385	390
Lys Glu Lys Leu Val Tyr Ala Ile Phe Leu Lys Trp Pro Thr Ser		
395	400	405
Gly Gln Leu Phe Leu Gly His Pro Lys Ala Ile Leu Gly Ala Thr		
410	415	420
Glu Val Lys Leu Leu Gly His Gly Gln Pro Leu Asn Trp Ile Ser		
425	430	435
Leu Glu Gln Asn Gly Ile Met Val Glu Leu Pro Gln Leu Thr Ile		

440

P1618P2C3.txt
445

450

His Gln Met Pro Cys Lys Trp Gly Trp Ala Leu Ala Leu Thr Asn
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Val Ile

<210> 196

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 196

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<210> 197

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 197

ggattcatcc tcaaggaaaga gccc 24

<210> 198

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

<400> 198

aacttgcagc atcagccact ctgc 24

<210> 199

<211> 45

<212> DNA

<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

<400> 199

ttccgtgccc agcttcggta gc当地gtggtt ctgggtgtat tggca 45

<210> 200

<211> 2372

<212> DNA

<213> Homo Sapien

<400> 200

agcaggaaa tccggatgtc tc当地gttatga agtggaggcag tgagtgtgag 50

cctcaacata gttccagaac tctccatccg gactagttat tgagcatctg 100

cctctcatat caccagtggc catctgaggt gtttccctgg ctctgaaggg 150

P1618P2C3.txt

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gcgaaccagc agctgaattt cacagaagct aaggaggcct gtaggctgct 350
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gccttgaaac ttgcagctat ggctgggttg gagatggatt cgtggtcattc 450
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ccatggagat tctcataact tgagacctaa tctctgtaaa gctaaaataa 1700

P1618P2C3.txt

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aattaaagca ttttagaaaaac tt 2372

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<211> 322

<212> PRT

<213> Homo Sapien

<400> 201

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20 25 30

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35 40 45

Lys Lys Ala Asn Gln Gln Leu Asn Phe Thr Glu Ala Lys Glu Ala
50 55 60

Cys Arg Leu Leu Gly Leu Ser Leu Ala Gly Lys Asp Gln Val Glu
65 70 75

Thr Ala Leu Lys Ala Ser Phe Glu Thr Cys Ser Tyr Gly Trp Val
80 85 90

Gly Asp Gly Phe Val Val Ile Ser Arg Ile Ser Pro Asn Pro Lys
95 100 105

Cys Gly Lys Asn Gly Val Gly Val Leu Ile Trp Lys Val Pro Val
110 115 120

Ser Arg Gln Phe Ala Ala Tyr Cys Tyr Asn Ser Ser Asp Thr Trp
125 130 135

Thr Asn Ser Cys Ile Pro Glu Ile Ile Thr Thr Lys Asp Pro Ile
140 145 150

P1618P2C3.txt

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170 175 180
Pro Thr Thr Thr Pro Pro Ala Pro Ala Ser Thr Ser Ile Pro Arg
185 190 195
Arg Lys Lys Leu Ile Cys Val Thr Glu Val Phe Met Glu Thr Ser
200 205 210
Thr Met Ser Thr Glu Thr Glu Pro Phe Val Glu Asn Lys Ala Ala
215 220 225
Phe Lys Asn Glu Ala Ala Gly Phe Gly Gly Val Pro Thr Ala Leu
230 235 240
Leu Val Leu Ala Leu Leu Phe Phe Gly Ala Ala Ala Gly Leu Gly
245 250 255
Phe Cys Tyr Val Lys Arg Tyr Val Lys Ala Phe Pro Phe Thr Asn
260 265 270
Lys Asn Gln Gln Lys Glu Met Ile Glu Thr Lys Val Val Lys Glu
275 280 285
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305 310 315
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<210> 202

<211> 24

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<223> Synthetic Oligonucleotide Probe

<400> 202

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<211> 22

<212> DNA

<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

<400> 203

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<210> 204

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

<400> 204

tgtagcagga ggagtagtag tagg 24

<210> 205

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<223> Synthetic Oligonucleotide Probe

<400> 205

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<210> 206

<211> 1620

<212> DNA

<213> Homo Sapien

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<221> unsure

<222> 973, 977, 996, 1003

<223> unknown base

<400> 206

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tctgccttc ctactcgta gaaaactgcc gccgctctgc cacggtctgc 150

ccacccaaacg cgaagacggt aacccgtgtg actttgactg gagagaagtg 200

gagatcctga ttttctcag tgccattgtg atgatgaaga acccgagatc 250

catcaactgtg gagcaacata taggcaacat tttcatgttt agtaaagtgg 300

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gggcctgag tataatcaagt acttcaatga taaaaccatt gatgaggaac 450

tagaacggga caagagggtc acttggattt tggagttctt tgccaattgg 500

tctaatgact gccaatcatt tgccctatc tatgctgacc tctcccttaa 550

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<210> 207

<211> 296

<212> PRT

<213> Homo Sapien

<400> 207

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				20										30

Leu	Leu	Ser	Ala	Ala	Phe	Leu	Leu	Val	Arg	Lys	Leu	Pro	Pro	Leu
					35				40					45

Cys	His	Gly	Leu	Pro	Thr	Gln	Arg	Glu	Asp	Gly	Asn	Pro	Cys	Asp
					50				55					60

Phe	Asp	Trp	Arg	Glu	Val	Glu	Ile	Leu	Met	Phe	Leu	Ser	Ala	Ile
					65				70					75

Val	Met	Met	Lys	Asn	Arg	Arg	Ser	Ile	Thr	Val	Glu	Gln	His	Ile
									80					90

Gly	Asn	Ile	Phe	Met	Phe	Ser	Lys	Val	Ala	Asn	Thr	Ile	Leu	Phe
									95					105

Phe	Arg	Leu	Asp	Ile	Arg	Met	Gly	Leu	Leu	Tyr	Ile	Thr	Leu	Cys
									110					120

Ile	Val	Phe	Leu	Met	Thr	Cys	Lys	Pro	Pro	Leu	Tyr	Met	Gly	Pro
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P1618P2C3.txt

125 130 135

Glu Tyr Ile Lys Tyr Phe Asn Asp Lys Thr Ile Asp Glu Glu Leu
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Glu Arg Asp Lys Arg Val Thr Trp Ile Val Glu Phe Phe Ala Asn
155 160 165

Trp Ser Asn Asp Cys Gln Ser Phe Ala Pro Ile Tyr Ala Asp Leu
170 175 180

Ser Leu Lys Tyr Asn Cys Thr Gly Leu Asn Phe Gly Lys Val Asp
185 190 195

Val Gly Arg Tyr Thr Asp Val Ser Thr Arg Tyr Lys Val Ser Thr
200 205 210

Ser Pro Leu Thr Lys Gln Leu Pro Thr Leu Ile Leu Phe Gln Gly
215 220 225

Gly Lys Glu Ala Met Arg Arg Pro Gln Ile Asp Lys Lys Gly Arg
230 235 240

Ala Val Ser Trp Thr Phe Ser Glu Glu Asn Val Ile Arg Glu Phe
245 250 255

Asn Leu Asn Glu Leu Tyr Gln Arg Ala Lys Lys Leu Ser Lys Ala
260 265 270

Gly Asp Asn Ile Pro Glu Glu Gln Pro Val Ala Ser Thr Pro Thr
275 280 285

Thr Val Ser Asp Gly Glu Asn Lys Lys Asp Lys
290 295

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<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

<400> 208

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<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 209

tggagacaat atccctgagg 20

<210> 210

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aacagttggc cacagcatgg cagg 24

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<213> Homo Sapien

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P1618P2C3.txt

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tgccgcattc cctcactggc tgtgtattta ttgagtggtt cgttttccct 1250
tgtgggttgg agccattta actgtttta tacttctcaa tttaaatttt 1300
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1950
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 1985

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<211> 360
<212> PRT
<213> Homo Sapien

<400> 213
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Tyr Gly Leu Pro Phe Tyr Asn Gly Phe Tyr Tyr Ser Asn Ser Ala
20 25 30
Asn Asp Gln Asn Leu Gly Asn Gly His Gly Lys Asp Leu Leu Asn
35 40 45
Gly Val Lys Leu Val Val Glu Thr Pro Glu Glu Thr Leu Phe Thr
50 55 60
Tyr Gln Gly Ala Ser Val Ile Leu Pro Cys Arg Tyr Arg Tyr Glu
65 70 75
Pro Ala Leu Val Ser Pro Arg Arg Val Arg Val Lys Trp Trp Lys
80 85 90

P1618P2C3.txt

Leu Ser Glu Asn Gly Ala Pro Glu Lys Asp Val Leu Val Ala Ile
95 100 105
Gly Leu Arg His Arg Ser Phe Gly Asp Tyr Gln Gly Arg Val His
110 115 120
Leu Arg Gln Asp Lys Glu His Asp Val Ser Leu Glu Ile Gln Asp
125 130 135
Leu Arg Leu Glu Asp Tyr Gly Arg Tyr Arg Cys Glu Val Ile Asp
140 145 150
Gly Leu Glu Asp Glu Ser Gly Leu Val Glu Leu Glu Leu Arg Gly
155 160 165
Val Val Phe Pro Tyr Gln Ser Pro Asn Gly Arg Tyr Gln Phe Asn
170 175 180
Phe His Glu Gly Gln Gln Val Cys Ala Glu Gln Ala Ala Val Val
185 190 195
Ala Ser Phe Glu Gln Leu Phe Arg Ala Trp Glu Glu Gly Leu Asp
200 205 210
Trp Cys Asn Ala Gly Trp Leu Gln Asp Ala Thr Val Gln Tyr Pro
215 220 225
Ile Met Leu Pro Arg Gln Pro Cys Gly Gly Pro Gly Leu Ala Pro
230 235 240
Gly Val Arg Ser Tyr Gly Pro Arg His Arg Arg Leu His Arg Tyr
245 250 255
Asp Val Phe Cys Phe Ala Thr Ala Leu Lys Gly Arg Val Tyr Tyr
260 265 270
Leu Glu His Pro Glu Lys Leu Thr Leu Thr Glu Ala Arg Glu Ala
275 280 285
Cys Gln Glu Asp Asp Ala Thr Ile Ala Lys Val Gly Gln Leu Phe
290 295 300
Ala Ala Trp Lys Phe His Gly Leu Asp Arg Cys Asp Ala Gly Trp
305 310 315
Leu Ala Asp Gly Ser Val Arg Tyr Pro Val Val His Pro His Pro
320 325 330
Asn Cys Gly Pro Pro Glu Pro Gly Val Arg Ser Phe Gly Phe Pro
335 340 345
Asp Pro Gln Ser Arg Leu Tyr Gly Val Tyr Cys Tyr Arg Gln His
350 355 360

<210> 214

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 214

P1618P2C3.txt

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<400> 215

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<211> 18

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<400> 216

agggctggaa gccagttc 18

<210> 217

<211> 18

<212> DNA

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<223> Synthetic Oligonucleotide Probe

<400> 217

agccagttag gaaatgct 18

<210> 218

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

<400> 218

tgtccaaagt acacacacacct gagg 24

<210> 219

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 219

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<211> 1503

<212> DNA

<213> Homo Sapien

<400> 220

P1618P2C3.txt

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atgaggcttt cctgggacgg gaagtggcca aggaattcga ccaactcacc 250
ccagagggaaa gccaggccccg tctggggcg 300
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gacacgtacg acacggaccg cgacgggcgt gtgggttggg aggagctg 450
caacgccacc tatggccact acgcgccccgg tgaagaattt catgacgtgg 500
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aaa 1503

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<211> 328
 <212> PRT
 <213> Homo Sapien

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 Gln Gly Arg Val His Gln Ala Ala Pro Leu Ser Asp Ala Pro His
 35 40 45
 Asp Asp Ala His Gly Asn Phe Gln Tyr Asp His Glu Ala Phe Leu
 50 55 60
 Gly Arg Glu Val Ala Lys Glu Phe Asp Gln Leu Thr Pro Glu Glu
 65 70 75
 Ser Gln Ala Arg Leu Gly Arg Ile Val Asp Arg Met Asp Arg Ala
 80 85 90
 Gly Asp Gly Asp Gly Trp Val Ser Leu Ala Glu Leu Arg Ala Trp
 95 100 105
 Ile Ala His Thr Gln Gln Arg His Ile Arg Asp Ser Val Ser Ala
 110 115 120
 Ala Trp Asp Thr Tyr Asp Thr Asp Arg Asp Gly Arg Val Gly Trp
 125 130 135
 Glu Glu Leu Arg Asn Ala Thr Tyr Gly His Tyr Ala Pro Gly Glu
 140 145 150
 Glu Phe His Asp Val Glu Asp Ala Glu Thr Tyr Lys Lys Met Leu
 155 160 165
 Ala Arg Asp Glu Arg Arg Phe Arg Val Ala Asp Gln Asp Gly Asp
 170 175 180
 Ser Met Ala Thr Arg Glu Glu Leu Thr Ala Phe Leu His Pro Glu
 185 190 195
 Glu Phe Pro His Met Arg Asp Ile Val Ile Ala Glu Thr Leu Glu
 200 205 210
 Asp Leu Asp Arg Asn Lys Asp Gly Tyr Val Gln Val Glu Glu Tyr
 215 220 225
 Ile Ala Asp Leu Tyr Ser Ala Glu Pro Gly Glu Glu Glu Pro Ala
 230 235 240
 Trp Val Gln Thr Glu Arg Gln Gln Phe Arg Asp Phe Arg Asp Leu
 245 250 255
 Asn Lys Asp Gly His Leu Asp Gly Ser Glu Val Gly His Trp Val
 260 265 270
 Leu Pro Pro Ala Gln Asp Gln Pro Leu Val Glu Ala Asn His Leu
 275 280 285
 Leu His Glu Ser Asp Thr Asp Lys Asp Gly Arg Leu Ser Lys Ala

P1618P2C3.txt

290

295

300

Glu Ile Leu Gly Asn Trp Asn Met Phe Val Gly Ser Gln Ala Thr
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320 325

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<211> 20

<212> DNA

<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

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<210> 223
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<400> 223
gaaatcctgg gtaattgg 18

<210> 224
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<223> Synthetic oligonucleotide Probe

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gtgcgcggtg ctcacagctc atc 23

<210> 225
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<210> 226
<211> 2403
<212> DNA
<213> Homo Sapien

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tccctgtttc tttgtcgctc ccagcctgtc tgtcgtcggt ttggcgcccc 150

P1618P2C3.txt

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aacatccgct atatgagtgg tggAACAGCT actgggtatg ccatttcctt 1750
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gatgtcatca gaggcattt tagagatttcc ttagaatccc agcaataatg 2050
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aaa 2403

<210> 227

<211> 550

<212> PRT

<213> Homo Sapien

<400> 227

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Leu	Leu	Leu	Pro	Gly	Pro	Ala	Gly	Ser	Glu	Gly	Ala	Ala	Pro	Ile
				20				25					30	

Ala	Ile	Thr	Cys	Phe	Thr	Arg	Gly	Leu	Asp	Ile	Arg	Lys	Glu	Lys
				35				40				45		

Ala	Asp	Val	Leu	Cys	Pro	Gly	Gly	Cys	Pro	Leu	Glu	Glu	Phe	Ser
			50					55				60		

Val	Tyr	Gly	Asn	Ile	Val	Tyr	Ala	Ser	Val	Ser	Ser	Ile	Cys	Gly
			65					70				75		

Ala	Ala	Val	His	Arg	Gly	Val	Ile	Ser	Asn	Ser	Gly	Gly	Pro	Val
			80					85				90		

Arg	Val	Tyr	Ser	Leu	Pro	Gly	Arg	Glu	Asn	Tyr	Ser	Ser	Val	Asp
			95					100				105		

Ala	Asn	Gly	Ile	Gln	Ser	Gln	Met	Leu	Ser	Arg	Trp	Ser	Ala	Ser
			110					115				120		

Phe	Thr	Val	Thr	Lys	Gly	Lys	Ser	Ser	Thr	Gln	Glu	Ala	Thr	Gly
			125					130				135		

P1618P2C3.txt

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 140 145 150
 Lys Thr Pro Glu Lys Lys Thr Gly Asn Lys Asp Cys Lys Ala Asp 165
 155 160 165
 Ile Ala Phe Leu Ile Asp Gly Ser Phe Asn Ile Gly Gln Arg Arg 180
 170 175 180
 Phe Asn Leu Gln Lys Asn Phe Val Gly Lys Val Ala Leu Met Leu 195
 185 190 195
 Gly Ile Gly Thr Glu Gly Pro His Val Gly Leu Val Gln Ala Ser 210
 200 205 210
 Glu His Pro Lys Ile Glu Phe Tyr Leu Lys Asn Phe Thr Ser Ala 225
 215 220 225
 Lys Asp Val Leu Phe Ala Ile Lys Glu Val Gly Phe Arg Gly Gly 240
 230 235 240
 Asn Ser Asn Thr Gly Lys Ala Leu Lys His Thr Ala Gln Lys Phe 255
 245 250 255
 Phe Thr Val Asp Ala Gly Val Arg Lys Gly Ile Pro Lys Val Val 270
 260 265 270
 Val Val Phe Ile Asp Gly Trp Pro Ser Asp Asp Ile Glu Glu Ala 285
 275 280 285
 Gly Ile Val Ala Arg Glu Phe Gly Val Asn Val Phe Ile Val Ser 300
 290 295 300
 Val Ala Lys Pro Ile Pro Glu Glu Leu Gly Met Val Gln Asp Val 315
 305 310 315
 Thr Phe Val Asp Lys Ala Val Cys Arg Asn Asn Gly Phe Phe Ser 330
 320 325 330
 Tyr His Met Pro Asn Trp Phe Gly Thr Thr Lys Tyr Val Lys Pro 345
 335 340 345
 Leu Val Gln Lys Leu Cys Thr His Glu Gln Met Met Cys Ser Lys 360
 350 355 360
 Thr Cys Tyr Asn Ser Val Asn Ile Ala Phe Leu Ile Asp Gly Ser 375
 365 370 375
 Ser Ser Val Gly Asp Ser Asn Phe Arg Leu Met Leu Glu Phe Val 390
 380 385 390
 Ser Asn Ile Ala Lys Thr Phe Glu Ile Ser Asp Ile Gly Ala Lys 405
 395 400 405
 Ile Ala Ala Val Gln Phe Thr Tyr Asp Gln Arg Thr Glu Phe Ser 420
 410 415 420
 Phe Thr Asp Tyr Ser Thr Lys Glu Asn Val Leu Ala Val Ile Arg 435
 425 430 435
 Asn Ile Arg Tyr Met Ser Gly Gly Thr Ala Thr Gly Asp Ala Ile 450
 440 445 450

P1618P2C3.txt

Ser Phe Thr Val Arg Asn Val Phe Gly Pro Ile Arg Glu Ser Pro
455 460 465
Asn Lys Asn Phe Leu Val Ile Val Thr Asp Gly Gln Ser Tyr Asp
470 475 480
Asp Val Gln Gly Pro Ala Ala Ala Ala His Asp Ala Gly Ile Thr
485 490 495
Ile Phe Ser Val Gly Val Ala Trp Ala Pro Leu Asp Asp Leu Lys
500 505 510
Asp Met Ala Ser Lys Pro Lys Glu Ser His Ala Phe Phe Thr Arg
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<213> Artificial Sequence

<220>

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<400> 228

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<210> 229

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 229

ctgctgtcca caggggag 18

<210> 230

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 230

ccttgaagca tactgctc 18

<210> 231

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 231

gagatagcaa tttccgcc 18

<210> 232

<211> 18

<212> DNA

<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

<400> 232

ttcctcaaga gggcagcc 18

<210> 233

<211> 24

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<210> 234

<211> 45

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<400> 234

gctctgagga aggtgacgctg cggggcctcc gaacccttgg ccttg 45

<210> 235

<211> 2586

<212> DNA

<213> Homo Sapien

<400> 235

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ccgcagcgca actcggtcca gtcggggcg ggctgcggg cgccagagcgg 150

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agaagtgaac ctggcaaact tacctcccag ctatcacaat gagaccaaca 450

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P1618P2C3.txt

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<211> 350

<212> PRT

<213> Homo Sapien

<400> 236

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Pro	Val	Lys	Pro	Gly	Pro	Ala	Leu	Ser	Tyr	Pro	Gln	Glu	Glu	Ala
		35						40					45	
Thr	Leu	Asn	Glu	Met	Phe	Arg	Glu	Val	Glu	Glu	Leu	Met	Glu	Asp
		50						55					60	
Thr	Gln	His	Lys	Leu	Arg	Ser	Ala	Val	Glu	Glu	Met	Glu	Ala	Glu
		65						70					75	
Glu	Ala	Ala	Ala	Lys	Ala	Ser	Ser	Glu	Val	Asn	Leu	Ala	Asn	Leu
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Pro	Pro	Ser	Tyr	His	Asn	Glu	Thr	Asn	Thr	Asp	Thr	Lys	Val	Gly
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Asn	Asn	Thr	Ile	His	Val	His	Arg	Glu	Ile	His	Lys	Ile	Thr	Asn
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Val	Gly	Asp	Glu	Glu	Gly	Arg	Arg	Ser	His	Glu	Cys	Ile	Ile	Asp
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Glu	Asp	Cys	Gly	Pro	Ser	Met	Tyr	Cys	Gln	Phe	Ala	Ser	Phe	Gln
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Tyr	Thr	Cys	Gln	Pro	Cys	Arg	Gly	Gln	Arg	Met	Leu	Cys	Thr	Arg
				170				175					180	
Asp	Ser	Glu	Cys	Cys	Gly	Asp	Gln	Leu	Cys	Val	Trp	Gly	His	Cys
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P1618P2C3.txt

Thr Lys Met Ala Thr Arg Gly Ser Asn Gly Thr Ile Cys Asp Asn
200 205 210
Gln Arg Asp Cys Gln Pro Gly Leu Cys Cys Ala Phe Gln Arg Gly
215 220 225
Leu Leu Phe Pro Val Cys Thr Pro Leu Pro Val Glu Gly Glu Leu
230 235 240
Cys His Asp Pro Ala Ser Arg Leu Leu Asp Leu Ile Thr Trp Glu
245 250 255
Leu Glu Pro Asp Gly Ala Leu Asp Arg Cys Pro Cys Ala Ser Gly
260 265 270
Leu Leu Cys Gln Pro His Ser His Ser Leu Val Tyr Val Cys Lys
275 280 285
Pro Thr Phe Val Gly Ser Arg Asp Gln Asp Gly Glu Ile Leu Leu
290 295 300
Pro Arg Glu Val Pro Asp Glu Tyr Glu Val Gly Ser Phe Met Glu
305 310 315
Glu Val Arg Gln Glu Leu Glu Asp Leu Glu Arg Ser Leu Thr Glu
320 325 330
Glu Met Ala Leu Gly Glu Pro Ala Ala Ala Ala Ala Leu Leu
335 340 345
Gly Gly Glu Glu Ile
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<210> 237

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide probe

<400> 237

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<210> 238

<211> 49

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Probe

<400> 238

ggaggactgt gccaccatga gagactcttc aaacccaagg caaaattgg 49

<210> 239

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

P1618P2C3.txt

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<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 240
ttggcagctt catggagg 18

<210> 241
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 241
cctggggcaaa aatgcaac 18

<210> 242
<211> 24
<212> DNA
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<220>
<223> Synthetic Oligonucleotide Probe

<400> 242
ctccagctcc tggcgcacct cctc 24

<210> 243
<211> 45
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<220>
<223> Synthetic Oligonucleotide Probe

<400> 243
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<210> 244
<211> 3679
<212> DNA
<213> Homo Sapien

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cacacataca cttccctctc cttcactgaa gactcacagt cactcactct 200
gtgagcaggt catagaaaag gacactaaag ctttaaggac aggcctggcc 250

P1618P2C3.txt

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P1618P2C3.txt

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P1618P2C3.txt

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<211> 713

<212> PRT

<213> Homo Sapien

<400> 245

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				20				25				30		
Pro	Gln	Cys	Ala	Cys	Gln	Ile	Arg	Pro	Trp	Tyr	Thr	Pro	Arg	Ser
				35				40				45		
Ser	Tyr	Arg	Glu	Ala	Thr	Thr	Val	Asp	Cys	Asn	Asp	Leu	Phe	Leu
				50				55				60		
Thr	Ala	Val	Pro	Pro	Ala	Leu	Pro	Ala	Gly	Thr	Gln	Thr	Leu	Leu
				65				70				75		
Leu	Gln	Ser	Asn	Ser	Ile	Val	Arg	Val	Asp	Gln	Ser	Glu	Leu	Gly
				80				85				90		
Tyr	Leu	Ala	Asn	Leu	Thr	Glu	Leu	Asp	Leu	Ser	Gln	Asn	Ser	Phe
				95				100				105		
Ser	Asp	Ala	Arg	Asp	Cys	Asp	Phe	His	Ala	Leu	Pro	Gln	Leu	Leu
				110				115				120		
Ser	Leu	His	Leu	Glu	Glu	Asn	Gln	Leu	Thr	Arg	Leu	Glu	Asp	His
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Ser	Phe	Ala	Gly	Leu	Ala	Ser	Leu	Gln	Glu	Leu	Tyr	Leu	Asn	His
				140				145				150		
Asn	Gln	Leu	Tyr	Arg	Ile	Ala	Pro	Arg	Ala	Phe	Ser	Gly	Leu	Ser
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Asn	Leu	Leu	Arg	Leu	His	Leu	Asn	Ser	Asn	Leu	Leu	Arg	Ala	Ile
				170				175				180		
Asp	Ser	Arg	Trp	Phe	Glu	Met	Leu	Pro	Asn	Leu	Glu	Ile	Leu	Met
				185				190				195		
Ile	Gly	Gly	Asn	Lys	Val	Asp	Ala	Ile	Leu	Asp	Met	Asn	Phe	Arg
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Pro	Leu	Ala	Asn	Leu	Arg	Ser	Leu	Val	Leu	Ala	Gly	Met	Asn	Leu
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P1618P2C3.txt

Arg Glu Ile Ser Asp Tyr Ala Leu Glu Gly Leu Gln Ser Leu Glu
230 235 240
Ser Leu Ser Phe Tyr Asp Asn Gln Leu Ala Arg Val Pro Arg Arg
245 250 255
Ala Leu Glu Gln Val Pro Gly Leu Lys Phe Leu Asp Leu Asn Lys
260 265 270
Asn Pro Leu Gln Arg Val Gly Pro Gly Asp Phe Ala Asn Met Leu
275 280 285
His Leu Lys Glu Leu Gly Leu Asn Asn Met Glu Glu Leu Val Ser
290 295 300
Ile Asp Lys Phe Ala Leu Val Asn Leu Pro Glu Leu Thr Lys Leu
305 310 315
Asp Ile Thr Asn Asn Pro Arg Leu Ser Phe Ile His Pro Arg Ala
320 325 330
Phe His His Leu Pro Gln Met Glu Thr Leu Met Leu Asn Asn Asn
335 340 345
Ala Leu Ser Ala Leu His Gln Gln Thr Val Glu Ser Leu Pro Asn
350 355 360
Leu Gln Glu Val Gly Leu His Gly Asn Pro Ile Arg Cys Asp Cys
365 370 375
Val Ile Arg Trp Ala Asn Ala Thr Gly Thr Arg Val Arg Phe Ile
380 385 390
Glu Pro Gln Ser Thr Leu Cys Ala Glu Pro Pro Asp Leu Gln Arg
395 400 405
Leu Pro Val Arg Glu Val Pro Phe Arg Glu Met Thr Asp His Cys
410 415 420
Leu Pro Leu Ile Ser Pro Arg Ser Phe Pro Pro Ser Leu Gln Val
425 430 435
Ala Ser Gly Glu Ser Met Val Leu His Cys Arg Ala Leu Ala Glu
440 445 450
Pro Glu Pro Glu Ile Tyr Trp Val Thr Pro Ala Gly Leu Arg Leu
455 460 465
Thr Pro Ala His Ala Gly Arg Arg Tyr Arg Val Tyr Pro Glu Gly
470 475 480
Thr Leu Glu Leu Arg Arg Val Thr Ala Glu Glu Ala Gly Leu Tyr
485 490 495
Thr Cys Val Ala Gln Asn Leu Val Gly Ala Asp Thr Lys Thr Val
500 505 510
Ser Val Val Val Gly Arg Ala Leu Leu Gln Pro Gly Arg Asp Glu
515 520 525
Gly Gln Gly Leu Glu Leu Arg Val Gln Glu Thr His Pro Tyr His
530 535 540

P1618P2C3.txt

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560 565 570
Ala Leu Ala Arg Leu Pro Arg Gly Thr His Ser Tyr Asn Ile Thr
575 580 585
Arg Leu Leu Gln Ala Thr Glu Tyr Trp Ala Cys Leu Gln Val Ala
590 595 600
Phe Ala Asp Ala His Thr Gln Leu Ala Cys Val Trp Ala Arg Thr
605 610 615
Lys Glu Ala Thr Ser Cys His Arg Ala Leu Gly Asp Arg Pro Gly
620 625 630
Leu Ile Ala Ile Leu Ala Leu Ala Val Leu Leu Leu Ala Ala Gly
635 640 645
Leu Ala Ala His Leu Gly Thr Gly Gln Pro Arg Lys Gly Val Gly
650 655 660
Gly Arg Arg Pro Leu Pro Pro Ala Trp Ala Phe Trp Gly Trp Ser
665 670 675
Ala Pro Ser Val Arg Val Val Ser Ala Pro Leu Val Leu Pro Trp
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695 700 705
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<223> Synthetic Oligonucleotide Probe

<400> 246
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<211> 24
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<220>
<223> Synthetic Oligonucleotide Probe

<400> 247
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<223> Synthetic Oligonucleotide Probe

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<210> 249

<211> 3401

<212> DNA

<213> Homo Sapien

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P1618P2C3.txt

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ctgacaagga gcaggcctga gcgaggccgg cccagcacag caagcagcag 1750
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P1618P2C3.txt

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<210> 250

<211> 546

<212> PRT

<213> Homo Sapien

<400> 250

Met Arg Gln Thr Ile Ile Lys Val Ile Lys Phe Ile Leu Ile Ile
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Cys Tyr Thr Val Tyr Tyr Val His Asn Ile Lys Phe Asp Val Asp
20 25 30

Cys Thr Val Asp Ile Glu Ser Leu Thr Gly Tyr Arg Thr Tyr Arg
35 40 45

Cys Ala His Pro Leu Ala Thr Leu Phe Lys Ile Leu Ala Ser Phe
50 55 60

Tyr Ile Ser Leu Val Ile Phe Tyr Gly Leu Ile Cys Met Tyr Thr
65 70 75

Leu Trp Trp Met Leu Arg Arg Ser Leu Lys Lys Tyr Ser Phe Glu
80 85 90

Ser Ile Arg Glu Glu Ser Ser Tyr Ser Asp Ile Pro Asp Val Lys
95 100 105

Asn Asp Phe Ala Phe Met Leu His Leu Ile Asp Gln Tyr Asp Pro
110 115 120

Leu Tyr Ser Lys Arg Phe Ala Val Phe Leu Ser Glu Val Ser Glu
125 130 135

Asn Lys Leu Arg Gln Leu Asn Leu Asn Asn Glu Trp Thr Leu Asp
140 145 150

Lys Leu Arg Gln Arg Leu Thr Lys Asn Ala Gln Asp Lys Leu Glu
155 160 165

P1618P2C3.txt

Leu His Leu Phe Met Leu Ser Gly Ile Pro Asp Thr Val Phe Asp
170 175 180
Leu Val Glu Leu Glu Val Leu Lys Leu Glu Leu Ile Pro Asp Val
185 190 195
Thr Ile Pro Pro Ser Ile Ala Gln Leu Thr Gly Leu Lys Glu Leu
200 205 210
Trp Leu Tyr His Thr Ala Ala Lys Ile Glu Ala Pro Ala Leu Ala
215 220 225
Phe Leu Arg Glu Asn Leu Arg Ala Leu His Ile Lys Phe Thr Asp
230 235 240
Ile Lys Glu Ile Pro Leu Trp Ile Tyr Ser Leu Lys Thr Leu Glu
245 250 255
Glu Leu His Leu Thr Gly Asn Leu Ser Ala Glu Asn Asn Arg Tyr
260 265 270
Ile Val Ile Asp Gly Leu Arg Glu Leu Lys Arg Leu Lys Val Leu
275 280 285
Arg Leu Lys Ser Asn Leu Ser Lys Leu Pro Gln Val Val Thr Asp
290 295 300
Val Gly Val His Leu Gln Lys Leu Ser Ile Asn Asn Glu Gly Thr
305 310 315
Lys Leu Ile Val Leu Asn Ser Leu Lys Lys Met Ala Asn Leu Thr
320 325 330
Glu Leu Glu Leu Ile Arg Cys Asp Leu Glu Arg Ile Pro His Ser
335 340 345
Ile Phe Ser Leu His Asn Leu Gln Glu Ile Asp Leu Lys Asp Asn
350 355 360
Asn Leu Lys Thr Ile Glu Glu Ile Ile Ser Phe Gln His Leu His
365 370 375
Arg Leu Thr Cys Leu Lys Leu Trp Tyr Asn His Ile Ala Tyr Ile
380 385 390
Pro Ile Gln Ile Gly Asn Leu Thr Asn Leu Glu Arg Leu Tyr Leu
395 400 405
Asn Arg Asn Lys Ile Glu Lys Ile Pro Thr Gln Leu Phe Tyr Cys
410 415 420
Arg Lys Leu Arg Tyr Leu Asp Leu Ser His Asn Asn Leu Thr Phe
425 430 435
Leu Pro Ala Asp Ile Gly Leu Leu Gln Asn Leu Gln Asn Leu Ala
440 445 450
Ile Thr Ala Asn Arg Ile Glu Thr Leu Pro Pro Glu Leu Phe Gln
455 460 465
Cys Arg Lys Leu Arg Ala Leu His Leu Gly Asn Asn Val Leu Gln
470 475 480

P1618P2C3.txt

Ser Leu Pro Ser Arg Val Gly Glu Leu Thr Asn Leu Thr Gln Ile
485 490 495

Glu Leu Arg Gly Asn Arg Leu Glu Cys Leu Pro Val Glu Leu Gly
500 505 510

Glu Cys Pro Leu Leu Lys Arg Ser Gly Leu Val Val Glu Glu Asp
515 520 525

Leu Phe Asn Thr Leu Pro Pro Glu Val Lys Glu Arg Leu Trp Arg
530 535 540

Ala Asp Lys Glu Gln Ala
545

<210> 251
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 251
caacaatgag ggcaccaagc 20

<210> 252
<211> 24
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 252
gatggctagg ttctggaggt tctg 24

<210> 253
<211> 47
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 253
caacctgcag gagattgacc tcaaggacaa caacctaag accatcg 47

<210> 254
<211> 1650
<212> DNA
<213> Homo Sapien

<400> 254
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gcgctctccc gtcccgccgt ggttgctgct gctgccgctg ctgctgggcc 100
tgaacgcagg agctgtcatt gactggccca cagaggaggg caaggaagta 150
tgggattatg tgacggtccg caaggatgcc tacatgttctt ggtggctcta 200

P1618P2C3.txt

ttatgccacc aactcctgca agaacttctc agaactgccc ctggtcatgt 250
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gaaattgggc cccttgacag tgatctcaaa ccacggaaaa ccacctggct 350
ccaggctgcc agtctcctat ttgtggataa tcccgtggc actgggtca 400
gttatgtgaa tggtagtggt gcctatgcca aggacctggc tatggtggt 450
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ccagacagtt ccattctaca ttttctcaga gtcctatgga ggaaaaatgg 550
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gctggaggca gggatcaacg tgacgggtta taatggacag ctggatctca 1150
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gatcaagaag gttctgacca gcttctgcag aggataaaat cattgtctct 1550
ggaggcaatt tggaaattat ttctgcttct taaaaaaacc taagatttt 1600
taaaaaattt atttgtttt atcaaaaataa aggatgataa tagatattaa 1650

<210> 255
<211> 452
<212> PRT
<213> Homo Sapien

P1618P2C3.txt

<400> 255
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 Leu Leu Pro Leu Leu Leu Gly Leu Asn Ala Gly Ala Val Ile Asp
 20 25 30
 Trp Pro Thr Glu Glu Gly Lys Glu Val Trp Asp Tyr Val Thr Val
 35 40 45
 Arg Lys Asp Ala Tyr Met Phe Trp Trp Leu Tyr Tyr Ala Thr Asn
 50 55 60
 Ser Cys Lys Asn Phe Ser Glu Leu Pro Leu Val Met Trp Leu Gln
 65 70 75
 Gly Gly Pro Gly Gly Ser Ser Thr Gly Phe Gly Asn Phe Glu Glu
 80 85 90
 Ile Gly Pro Leu Asp Ser Asp Leu Lys Pro Arg Lys Thr Thr Trp
 95 100 105
 Leu Gln Ala Ala Ser Leu Leu Phe Val Asp Asn Pro Val Gly Thr
 110 115 120
 Gly Phe Ser Tyr Val Asn Gly Ser Gly Ala Tyr Ala Lys Asp Leu
 125 130 135
 Ala Met Val Ala Ser Asp Met Met Val Leu Leu Lys Thr Phe Phe
 140 145 150
 Ser Cys His Lys Glu Phe Gln Thr Val Pro Phe Tyr Ile Phe Ser
 155 160 165
 Glu Ser Tyr Gly Gly Lys Met Ala Ala Gly Ile Gly Leu Glu Leu
 170 175 180
 Tyr Lys Ala Ile Gln Arg Gly Thr Ile Lys Cys Asn Phe Ala Gly
 185 190 195
 Val Ala Leu Gly Asp Ser Trp Ile Ser Pro Val Asp Ser Val Leu
 200 205 210
 Ser Trp Gly Pro Tyr Leu Tyr Ser Met Ser Leu Leu Glu Asp Lys
 215 220 225
 Gly Leu Ala Glu Val Ser Lys Val Ala Glu Gln Val Leu Asn Ala
 230 235 240
 Val Asn Lys Gly Leu Tyr Arg Glu Ala Thr Glu Leu Trp Gly Lys
 245 250 255
 Ala Glu Met Ile Ile Glu Gln Asn Thr Asp Gly Val Asn Phe Tyr
 260 265 270
 Asn Ile Leu Thr Lys Ser Thr Pro Thr Ser Thr Met Glu Ser Ser
 275 280 285
 Leu Glu Phe Thr Gln Ser His Leu Val Cys Leu Cys Gln Arg His
 290 295 300
 Val Arg His Leu Gln Arg Asp Ala Leu Ser Gln Leu Met Asn Gly
 305 310 315

P1618P2C3.txt

Pro Ile Arg Lys Lys Leu Lys Ile Ile Pro Glu Asp Gln Ser Trp
320 325 330
Gly Gly Gln Ala Thr Asn Val Phe Val Asn Met Glu Glu Asp Phe
335 340 345
Met Lys Pro Val Ile Ser Ile Val Asp Glu Leu Leu Glu Ala Gly
350 355 360
Ile Asn Val Thr Val Tyr Asn Gly Gln Leu Asp Leu Ile Val Asp
365 370 375
Thr Met Gly Gln Glu Ala Trp Val Arg Lys Leu Lys Trp Pro Glu
380 385 390
Leu Pro Lys Phe Ser Gln Leu Lys Trp Lys Ala Leu Tyr Ser Asp
395 400 405
Pro Lys Ser Leu Glu Thr Ser Ala Phe Val Lys Ser Tyr Lys Asn
410 415 420
Leu Ala Phe Tyr Trp Ile Leu Lys Ala Gly His Met Val Pro Ser
425 430 435
Asp Gln Gly Asp Met Ala Leu Lys Met Met Arg Leu Val Thr Gln
440 445 450
Gln Glu

<210> 256
<211> 1100
<212> DNA
<213> Homo Sapien

<400> 256
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ccgttatcag gaccatgcgg ccgacgggtc atcacgtcgc gcatcgtggg 150
tggagaggac gccgaactcg ggcgttggcc gtggcagggg agcctgcgcc 200
tgtgggattc ccacgtatgc ggagtgagcc tgctcagcca ccgctggca 250
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cgggtggatg gtccagtttgc ccagctgac ttccatgcca tccttctgga 350
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ccacatttga gtttgagaac cggacagact gctgggtgac tggctggggg 550
tacatcaaag aggatgaggc actgccatct ccccacaccc tccaggaagt 600
tcaggtcgcc atcataaaca actctatgtc caaccaccc ttcctcaagt 650

P1618P2C3.txt

acagtttccg caaggacatc tttggagaca tggtttgtgc tggcaacgcc 700
caaggcggga aggatgcctg cttcggtgac tcaggtggac ccttggcctg 750
taacaagaat ggactgtggt atcagattgg agtcgtgagc tggggagtgg 800
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tggggccggt ctgagcctac ctgagccat gcagcctggg gccactgcca 1000
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ttgatgcctt gcagggcatt cttcaaaaaa aaaaaaaaaa aaaaaaaaaa 1100

<210> 257

<211> 314

<212> PRT

<213> Homo Sapien

<400> 257

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Ala	Gly	Leu	Arg	Lys	Pro	Glu	Ser	Gln	Glu	Ala	Ala	Pro	Leu	Ser
				20				25				30		
Gly	Pro	Cys	Gly	Arg	Arg	Val	Ile	Thr	Ser	Arg	Ile	Val	Gly	Gly
				35				40				45		
Glu	Asp	Ala	Glu	Leu	Gly	Arg	Trp	Pro	Trp	Gln	Gly	Ser	Leu	Arg
				50				55				60		
Leu	Trp	Asp	Ser	His	Val	Cys	Gly	Val	Ser	Leu	Leu	Ser	His	Arg
				65				70				75		
Trp	Ala	Leu	Thr	Ala	Ala	His	Cys	Phe	Glu	Thr	Tyr	Ser	Asp	Leu
				80				85				90		
Ser	Asp	Pro	Ser	Gly	Trp	Met	Val	Gln	Phe	Gly	Gln	Leu	Thr	Ser
				95				100				105		
Met	Pro	Ser	Phe	Trp	Ser	Leu	Gln	Ala	Tyr	Tyr	Thr	Arg	Tyr	Phe
				110				115				120		
Val	Ser	Asn	Ile	Tyr	Leu	Ser	Pro	Arg	Tyr	Leu	Gly	Asn	Ser	Pro
				125				130				135		
Tyr	Asp	Ile	Ala	Leu	Val	Lys	Leu	Ser	Ala	Pro	Val	Thr	Tyr	Thr
				140				145				150		
Lys	His	Ile	Gln	Pro	Ile	Cys	Leu	Gln	Ala	Ser	Thr	Phe	Glu	Phe
				155				160				165		
Glu	Asn	Arg	Thr	Asp	Cys	Trp	Val	Thr	Gly	Trp	Gly	Tyr	Ile	Lys
				170				175				180		
Glu	Asp	Glu	Ala	Leu	Pro	Ser	Pro	His	Thr	Leu	Gln	Glu	Val	Gln
				185				190				195		

P1618P2C3.txt

Val Ala Ile Ile Asn Asn Ser Met Cys Asn His Leu Phe Leu Lys
200 205 210
Tyr Ser Phe Arg Lys Asp Ile Phe Gly Asp Met Val Cys Ala Gly
215 220 225
Asn Ala Gln Gly Gly Lys Asp Ala Cys Phe Gly Asp Ser Gly Gly
230 235 240
Pro Leu Ala Cys Asn Lys Asn Gly Leu Trp Tyr Gln Ile Gly Val
245 250 255
Val Ser Trp Gly Val Gly Cys Gly Arg Pro Asn Arg Pro Gly Val
260 265 270
Tyr Thr Asn Ile Ser His His Phe Glu Trp Ile Gln Lys Leu Met
275 280 285
Ala Gln Ser Gly Met Ser Gln Pro Asp Pro Ser Trp Pro Leu Leu
290 295 300
Phe Phe Pro Leu Leu Trp Ala Leu Pro Leu Leu Gly Pro Val
305 310

<210> 258
<211> 2427
<212> DNA
<213> Homo Sapien

<400> 258
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cgtgcggacc ctgaggaaga gctgagtctc acctttgccc tgagacagca 200
gaatgtggaa agactctcg agctggtgca ggctgtgtcg gatcccagct 250
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P1618P2C3.txt

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aatgattgtat acctcaaatg taaaaaa 2427

<210> 259
 <211> 556
 <212> PRT
 <213> Homo Sapien

 <400> 259
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 20 25 30
 Leu Pro Pro Gly Trp Val Ser Leu Gly Arg Ala Asp Pro Glu Glu
 35 40 45
 Glu Leu Ser Leu Thr Phe Ala Leu Arg Gln Gln Asn Val Glu Arg
 50 55 60
 Leu Ser Glu Leu Val Gln Ala Val Ser Asp Pro Ser Ser Pro Gln
 65 70 75
 Tyr Gly Lys Tyr Leu Thr Leu Glu Asn Val Ala Asp Leu Val Arg
 80 85 90
 Pro Ser Pro Leu Thr Leu His Thr Val Gln Lys Trp Leu Leu Ala
 95 100 105
 Ala Gly Ala Gln Lys Cys His Ser Val Ile Thr Gln Asp Phe Leu
 110 115 120
 Thr Cys Trp Leu Ser Ile Arg Gln Ala Glu Leu Leu Leu Pro Gly
 125 130 135
 Ala Glu Phe His His Tyr Val Gly Gly Pro Thr Glu Thr His Val
 140 145 150
 Val Arg Ser Pro His Pro Tyr Gln Leu Pro Gln Ala Leu Ala Pro
 155 160 165
 His Val Asp Phe Val Gly Gly Leu His Arg Phe Pro Pro Thr Ser
 170 175 180
 Ser Leu Arg Gln Arg Pro Glu Pro Gln Val Thr Gly Thr Val Gly
 185 190 195
 Leu His Leu Gly Val Thr Pro Ser Val Ile Arg Lys Arg Tyr Asn
 200 205 210
 Leu Thr Ser Gln Asp Val Gly Ser Gly Thr Ser Asn Asn Ser Gln
 215 220 225
 Ala Cys Ala Gln Phe Leu Glu Gln Tyr Phe His Asp Ser Asp Leu
 230 235 240
 Ala Gln Phe Met Arg Leu Phe Gly Gly Asn Phe Ala His Gln Ala
 245 250 255
 Ser Val Ala Arg Val Val Gly Gln Gln Gly Arg Gly Arg Ala Gly
 260 265 270
 Ile Glu Ala Ser Leu Asp Val Gln Tyr Leu Met Ser Ala Gly Ala

P1618P2C3.txt

275

280

285

Asn Ile Ser Thr Trp Val Tyr Ser Ser Pro Gly Arg His Glu Gly
 290 295 300
 Gln Glu Pro Phe Leu Gln Trp Leu Met Leu Leu Ser Asn Glu Ser
 305 310 315
 Ala Leu Pro His Val His Thr Val Ser Tyr Gly Asp Asp Glu Asp
 320 325 330
 Ser Leu Ser Ser Ala Tyr Ile Gln Arg Val Asn Thr Glu Leu Met
 335 340 345
 Lys Ala Ala Ala Arg Gly Leu Thr Leu Leu Phe Ala Ser Gly Asp
 350 355 360
 Ser Gly Ala Gly Cys Trp Ser Val Ser Gly Arg His Gln Phe Arg
 365 370 375
 Pro Thr Phe Pro Ala Ser Ser Pro Tyr Val Thr Thr Val Gly Gly
 380 385 390
 Thr Ser Phe Gln Glu Pro Phe Leu Ile Thr Asn Glu Ile Val Asp
 395 400 405
 Tyr Ile Ser Gly Gly Phe Ser Asn Val Phe Pro Arg Pro Ser
 410 415 420
 Tyr Gln Glu Glu Ala Val Thr Lys Phe Leu Ser Ser Ser Pro His
 425 430 435
 Leu Pro Pro Ser Ser Tyr Phe Asn Ala Ser Gly Arg Ala Tyr Pro
 440 445 450
 Asp Val Ala Ala Leu Ser Asp Gly Tyr Trp Val Val Ser Asn Arg
 455 460 465
 Val Pro Ile Pro Trp Val Ser Gly Thr Ser Ala Ser Thr Pro Val
 470 475 480
 Phe Gly Gly Ile Leu Ser Leu Ile Asn Glu His Arg Ile Leu Ser
 485 490 495
 Gly Arg Pro Pro Leu Gly Phe Leu Asn Pro Arg Leu Tyr Gln Gln
 500 505 510
 His Gly Ala Gly Leu Phe Asp Val Thr Arg Gly Cys His Glu Ser
 515 520 525
 Cys Leu Asp Glu Glu Val Glu Gly Gln Gly Phe Cys Ser Gly Pro
 530 535 540
 Gly Trp Asp Pro Val Thr Gly Trp Gly Thr Pro Thr Ser Gln Leu
 545 550 555
 Cys

<210> 260
 <211> 1638
 <212> DNA
 <213> Homo Sapien

P1618P2C3.txt

<400> 260
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cgcgccccgg gcgggctgct cggcgcgaa cagtgctcgg catggcaggg 100
atccagggc tcctcttcct tctcttctt ctgctctgtg ctgttggca 150
agtgagccct tacagtgccc cctggaaacc cacttggcct gcataccgccc 200
tccctgtcgt cttgccccag tctaccctca atttagccaa gccagacttt 250
ggagccgaag ccaaattaga agtatcttct tcatgtggac cccagtgtca 300
taagggaaact ccactgccc cttacgaaga ggccaagcaa tatctgtctt 350
atgaaacgct ctatgccaat ggtagccgca cagagacgca ggtgggcattc 400
tacatcctca gcagtagtgg agatggggcc caacaccgag actcagggtc 450
ttcaggaaag tctcgaagga agcggcagat ttatggctat gacagcaggt 500
tcagcatttt tggaaaggac ttccctgctca actaccctt ctcacatca 550
gtgaagttat ccacgggctg caccggcacc ctgggtggcag agaagcatgt 600
cctcacagct gcccactgca tacacgatgg aaaaacctat gtgaaaggaa 650
cccagaagct tcgagttggc ttccctaaagc ccaagttaa agatggtggt 700
cgaggggcca acgactccac ttccagccatg cccgagcaga tgaaatttca 750
gtggatccgg gtgaaacgca cccatgtgcc caaggggtgg atcaagggca 800
atgccaatga catcgccatg gattatgatt atgccccttc ggaactcaaa 850
aagccccaca agagaaaatt tatgaagatt ggggtgagcc ttccctgctaa 900
gcagctgcca gggggcagaa ttcaatttc tggttatgac aatgaccgac 950
caggcaattt ggtgtatcgc ttctgtgacg tcaaagacga gacctatgac 1000
ttgctctacc agcaatgcga tgcccgccca ggggcccagcg ggtctgggt 1050
ctatgtgagg atgtgaaaga gacagcagca gaagtgggag cggaaaaattta 1100
ttggcatttt ttccagggcac cagttgggtgg acatgaatgg ttccccacag 1150
gatttcaacg tggctgtcag aatcaacttcct ctcaaataatg cccagattt 1200
ctattggatt aaaggaaact acctggattt tagggagggg tgacacagtg 1250
ttcccttcgt gcagcaatta agggcttc tggcttttatt tttaggagagg 1300
ccaaattgtt ttttgcatt ggcgtgcaca cgtgtgtgtg tgggtgtgtg 1350
tgtgtgttaag gtgtcttata atcttttacc tattttttac aatttgcaga 1400
tgactggctt tactatttga aaactggttt gtgtatcata tcataatatca 1450
tttaaggcagt ttgaaggcat acttttgcatt agaaataaaaaaaa 1500
tttggggcaa tgaggaatat ttgacaattt agttaatctt cacgtttttg 1550

P1618P2C3.txt

caaacttta tttttatttc atctgaactt gtttcaaaga tttatattaa 1600

atatttggca tacaagagat atgaaaaaaaaaaaaaaa 1638

<210> 261

<211> 383

<212> PRT

<213> Homo Sapien

<400> 261

Met Ala Gly Ile Pro Gly Leu Leu Phe Leu Leu Phe Phe Leu Leu
1 5 10 15

Cys Ala Val Gly Gln Val Ser Pro Tyr Ser Ala Pro Trp Lys Pro
20 25 30

Thr Trp Pro Ala Tyr Arg Leu Pro Val Val Leu Pro Gln Ser Thr
35 40 45

Leu Asn Leu Ala Lys Pro Asp Phe Gly Ala Glu Ala Lys Leu Glu
50 55 60

Val Ser Ser Ser Cys Gly Pro Gln Cys His Lys Gly Thr Pro Leu
65 70 75

Pro Thr Tyr Glu Glu Ala Lys Gln Tyr Leu Ser Tyr Glu Thr Leu
80 85 90

Tyr Ala Asn Gly Ser Arg Thr Glu Thr Gln Val Gly Ile Tyr Ile
95 100 105

Leu Ser Ser Ser Gly Asp Gly Ala Gln His Arg Asp Ser Gly Ser
110 115 120

Ser Gly Lys Ser Arg Arg Lys Arg Gln Ile Tyr Gly Tyr Asp Ser
125 130 135

Arg Phe Ser Ile Phe Gly Lys Asp Phe Leu Leu Asn Tyr Pro Phe
140 145 150

Ser Thr Ser Val Lys Leu Ser Thr Gly Cys Thr Gly Thr Leu Val
155 160 165

Ala Glu Lys His Val Leu Thr Ala Ala His Cys Ile His Asp Gly
170 175 180

Lys Thr Tyr Val Lys Gly Thr Gln Lys Leu Arg Val Gly Phe Leu
185 190 195

Lys Pro Lys Phe Lys Asp Gly Gly Arg Gly Ala Asn Asp Ser Thr
200 205 210

Ser Ala Met Pro Glu Gln Met Lys Phe Gln Trp Ile Arg Val Lys
215 220 225

Arg Thr His Val Pro Lys Gly Trp Ile Lys Gly Asn Ala Asn Asp
230 235 240

Ile Gly Met Asp Tyr Asp Tyr Ala Leu Leu Glu Leu Lys Lys Pro
245 250 255

His Lys Arg Lys Phe Met Lys Ile Gly Val Ser Pro Pro Ala Lys

P1618P2C3.txt

260	265	270
Gln Leu Pro Gly	Gly Arg Ile His Phe Ser	Gly Tyr Asp Asn Asp
275	280	285
Arg Pro Gly Asn	Leu Val Tyr Arg Phe Cys	Asp Val Lys Asp Glu
290	295	300
Thr Tyr Asp Leu	Leu Tyr Gln Gln Cys	Asp Ala Gln Pro Gly Ala
305	310	315
Ser Gly Ser Gly	Val Tyr Val Arg Met	Trp Lys Arg Gln Gln Gln
320	325	330
Lys Trp Glu Arg	Lys Ile Ile Gly Ile	Phe Ser Gly His Gln Trp
335	340	345
Val Asp Met Asn	Gly Ser Pro Gln Asp	Phe Asn Val Ala Val Arg
350	355	360
Ile Thr Pro Leu	Lys Tyr Ala Gln Ile	Cys Tyr Trp Ile Lys Gly
365	370	375
Asn Tyr Leu Asp	Cys Arg Glu Gly	
380		

<210> 262

<211> 1378

<212> DNA

<213> Homo Sapien

<400> 262

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ccatggtggt ttctggagcg ccccccagccc tgggtggggg ctgtctcg 100
actttacacct ccctgctgct gctggcgtcg acagccatcc tcaatgcggc 150
caggataacct gttcccccag cctgtggaa gccccagcag ctgaaccggg 200
ttgtgggcgg cgaggacagc actgacagcg agtggccctg gatcgtgagc 250
atccagaaga atgggaccca ccactgcgca ggttctctgc tcaccagccg 300
ctgggtgatc actgctgccc actgtttcaa ggacaacctg aacaaaccat 350
acctgttctc tgtgctgctg gggcctggc agctggggaa ccctggctct 400
cggtcccaga aggtgggtgt tgccctgggtg gagccccacc ctgtgtattc 450
ctggaaggaa ggtgcctgtg cagacattgc cctggcgtcg ctgcagcgct 500
ccatacagtt ctcagagcgg gtcctgcca tctgcctacc tgatgcctct 550
atccacctcc ctccaaacac ccactgctgg atctcaggct gggggagcat 600
ccaagatgga gttcccttc cccaccctca gaccctgcag aagctgaagg 650
ttccttatcat cgactcggaa gtctgcagcc atctgtactg gcggggagca 700
ggacaggggac ccatcaactga ggacatgctg tgtgcccgt acttggaggg 750
ggagcgggat gcttgctgg gcgactccgg gggcccccctc atgtgccagg 800

P1618P2C3.txt

tgacggcgc ctggctgctg gccggcatca tcagctgggg cgaggcgtgt 850
gccgagcgca acaggcccgg ggtctacatc agcctctctg cgacccgctc 900
ctgggtggag aagatcgtgc aaggggtgca gctccgcggg cgcgctcagg 950
gggggtgggc cctcagggca ccgagccagg gctctggggc cgccgcgcgc 1000
tcctagggcg cagcgggacg cggggctcgg atctgaaagg cggccagatc 1050
cacatctgga tctggatctg cggcggcctc gggcggttc ccccgccgta 1100
aataggctca tctacctcta cctctggggg cccggacggc tgctgcggaa 1150
agaaaaacccc ctccccgacc cccccgacgg cctcaggccc ccctccaagg 1200
catcaggccc cgcccaacgg cctcatgtcc ccgccccac gacttccggc 1250
cccgcccccg ggccccagcg cttttgtta tataaatgtt aatgattttt 1300
ataggtattt gtaaccctgc ccacatatct tatttattcc tccaatttca 1350
ataaattatt tattctccaa aaaaaaaaa 1378

<210> 263

<211> 317

<212> PRT

<213> Homo Sapien

<400> 263

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Gly	Thr	Phe	Thr	Ser	Leu	Leu	Leu	Leu	Ala	Ser	Thr	Ala	Ile	Leu
		20							25					30
Asn	Ala	Ala	Arg	Ile	Pro	Val	Pro	Pro	Ala	Cys	Gly	Lys	Pro	Gln
				35					40					45
Gln	Leu	Asn	Arg	Val	Val	Gly	Gly	Glu	Asp	Ser	Thr	Asp	Ser	Glu
				50				55						60
Trp	Pro	Trp	Ile	Val	Ser	Ile	Gln	Lys	Asn	Gly	Thr	His	His	Cys
				65				70						75
Ala	Gly	Ser	Leu	Leu	Thr	Ser	Arg	Trp	Val	Ile	Thr	Ala	Ala	His
				80				85						90
Cys	Phe	Lys	Asp	Asn	Leu	Asn	Lys	Pro	Tyr	Leu	Phe	Ser	Val	Leu
				95				100						105
Leu	Gly	Ala	Trp	Gln	Leu	Gly	Asn	Pro	Gly	Ser	Arg	Ser	Gln	Lys
				110				115						120
Val	Gly	Val	Ala	Trp	Val	Glu	Pro	His	Pro	Val	Tyr	Ser	Trp	Lys
				125				130						135
Glu	Gly	Ala	Cys	Ala	Asp	Ile	Ala	Leu	Val	Arg	Leu	Glu	Arg	Ser
				140				145						150
Ile	Gln	Phe	Ser	Glu	Arg	Val	Leu	Pro	Ile	Cys	Leu	Pro	Asp	Ala
				155				160						165

P1618P2C3.txt

Ser Ile His Leu Pro Pro Asn Thr His Cys Trp Ile Ser Gly Trp
170 175 180
Gly Ser Ile Gln Asp Gly Val Pro Leu Pro His Pro Gln Thr Leu
185 190 195
Gln Lys Leu Lys Val Pro Ile Ile Asp Ser Glu Val Cys Ser His
200 205 210
Leu Tyr Trp Arg Gly Ala Gly Gln Gly Pro Ile Thr Glu Asp Met
215 220 225
Leu Cys Ala Gly Tyr Leu Glu Gly Glu Arg Asp Ala Cys Leu Gly
230 235 240
Asp Ser Gly Gly Pro Leu Met Cys Gln Val Asp Gly Ala Trp Leu
245 250 255
Leu Ala Gly Ile Ile Ser Trp Gly Glu Gly Cys Ala Glu Arg Asn
260 265 270
Arg Pro Gly Val Tyr Ile Ser Leu Ser Ala His Arg Ser Trp Val
275 280 285
Glu Lys Ile Val Gln Gly Val Gln Leu Arg Gly Arg Ala Gln Gly
290 295 300
Gly Gly Ala Leu Arg Ala Pro Ser Gln Gly Ser Gly Ala Ala Ala
305 310 315
Arg Ser

<210> 264
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 264
gtccgcaagg atgcctacat gttc 24

<210> 265
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 265
gcagaggtgt ctaagggtt 19

<210> 266
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

P1618P2C3.txt

<400> 266
agctctagac caatgccagc ttcc 24

<210> 267
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 267
gccaccaact cctgcaagaa cttctagaa ctgccccctgg tcatg 45

<210> 268
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 268
gggaaattca ccctatgaca ttgcc 25

<210> 269
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 269
gaatgccctg caagcatcaa ctgg 24

<210> 270
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 270
gcacctgtca cctacactaa acacatccag cccatctgtc tccaggcctc 50

<210> 271
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 271
gcggaagggc agaatgggac tccaaag 26

<210> 272
<211> 18
<212> DNA
<213> Artificial Sequence

P1618P2C3.txt

<220>
<223> Synthetic Oligonucleotide Probe
<400> 272
cagccctgcc acatgtgc 18
<210> 273
<211> 18
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic Oligonucleotide Probe
<400> 273
tactgggtgg tcagcaac 18
<210> 274
<211> 24
<212> DNA
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<220>
<223> Synthetic Oligonucleotide Probe
<400> 274
ggcgaagagc agggtgagac cccg 24
<210> 275
<211> 45
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic Oligonucleotide Probe
<400> 275
gccctcatcc tctctggcaa atgcagttac agcccgagc ccgac 45
<210> 276
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic Oligonucleotide Probe
<400> 276
gggcaggat tccagggtc c 21
<210> 277
<211> 18
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic Oligonucleotide Probe
<400> 277
ggctatgaca gcaggttc 18
<210> 278

P1618P2C3.txt

<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 278
tgacaatgac cgaccagg 18

<210> 279
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 279
gcatcgcatt gctggtagag caag 24

<210> 280
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 280
ttacagtgcc ccctggaaac ccacttggcc tgcataaccgc ctccc 45

<210> 281
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 281
cgtctcgagc gctccataaca gttcccttgc ccca 34

<210> 282
<211> 61
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 282
tgagggggga gcgggatgct tgtctggcg actccggggg ccccctcatg 50
tgccaggtgg a 61

<210> 283
<211> 119
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

P1618P2C3.txt

<400> 283

ccctcagacc ctgcagaagc tgaaggttcc tatcatcgac tcggaagtct 50
gcagccatct gtactggcgg ggagcaggac agggaccat cactgaggac 100
atgctgtgtg ccggctact 119

<210> 284

<211> 1875

<212> DNA

<213> Homo Sapien

<400> 284

gacggctggc caccatgcac ggctcctgca gttcctgat gcttctgctg 50
ccgctactgc tactgctggt ggccaccaca ggccccgtt gagccctcac 100
agatgaggag aaacgtttga tggtgagct gcacaacctc taccgggccc 150
agttatcccc gacggcctca gacatgctgc acatgagatg ggacgaggag 200
ctggccgcct tcgccaaggc ctacgcacgg cagtgcgtgt gggccacaa 250
caaggagcgc gggcgccgca gcgagaatct gttgcacatc acagacgagg 300
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cacgcaggtg gtagggcca agacagagag gatcggctgt gttcccact 450
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tctgtgaacc catcgaaagc ccggaaagatg ctcaggattt gccttacctg 650
gtaactgagg ccccatcctt ccggcgcact gaagcatcag actctaggaa 700
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cagaggtctc aggctccctg gcaaccaagg ctctgcctgc tgtggaaacc 800
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gcctgcctc cttggatgag gagccagttt cttcccaat atcgaccat 950
gttcctatcc caaaatcagc agacaaagtg acagacaaaa caaaagtgcc 1000
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caagggact cttcccaat gccaggagg aggctgaggc tgaggctgag 1100
ttgcctcctt ccagtgaggt cttggcctca gttttccag cccaggacaa 1150
gccaggtgag ctgcaggcca cactggacca cacggggcac acctcctcca 1200
agtccctgcc caatttcccc aatacctctg ccaccgctaa tgccacgggt 1250

P1618P2C3.txt

ggcggtgccc tggctctgca gtcgtccttg ccaggtgcag agggccctga 1300
caaggcttagc gttgtgtcag ggctgaactc gggccctggt catgtgtggg 1350
gccctctcct gggactactg ctccctgcctc ctctgggtt ggctggaatc 1400
ttctgaatgg gataccactc aaagggtgaa gaggtcagct gtcctcctgt 1450
catcttcccc accctgtccc cagccccctaa acaagatact tcttggttaa 1500
ggccctccgg aaggaaagg ctacggggca tgtgcctcat cacaccatcc 1550
atcctggagg cacaaggcct ggctggctgc gagctcagga ggcgcctga 1600
ggactgcaca cggggcccac acctctcctg cccctccctc ctgagtcctg 1650
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tgccccacaca gcatgtgcgc tctccctgag tgcctgtgtt gctggggatg 1750
gggattccta gggcagatg aaggacaagc cccactggag tggggttctt 1800
ttagtggggg aggcagggac gagggaaagga aagtaactcc tgactctcca 1850
ataaaaacct gtccaaacctg tgaaa 1875

<210> 285

<211> 463

<212> PRT

<213> Homo Sapien

<400> 285

Met	His	Gly	Ser	Cys	Ser	Phe	Leu	Met	Leu	Leu	Leu	Leu	Pro	Leu	Leu	
1									5					10		15
Leu	Leu	Leu	Val	Ala	Thr	Thr	Gly	Pro	Val	Gly	Ala	Leu	Thr	Asp		
									20				25		30	
Glu	Glu	Lys	Arg	Leu	Met	Val	Glu	Leu	His	Asn	Leu	Tyr	Arg	Ala		
									35				40		45	
Gln	Val	Ser	Pro	Thr	Ala	Ser	Asp	Met	Leu	His	Met	Arg	Trp	Asp		
								50				55		60		
Glu	Glu	Leu	Ala	Ala	Phe	Ala	Lys	Ala	Tyr	Ala	Arg	Gln	Cys	Val		
								65				70		75		
Trp	Gly	His	Asn	Lys	Glu	Arg	Gly	Arg	Arg	Gly	Glu	Asn	Leu	Phe		
								80				85		90		
Ala	Ile	Thr	Asp	Glu	Gly	Met	Asp	Val	Pro	Leu	Ala	Met	Glu	Glu		
									95				100		105	
Trp	His	His	Glu	Arg	Glu	His	Tyr	Asn	Leu	Ser	Ala	Ala	Thr	Cys		
									110				115		120	
Ser	Pro	Gly	Gln	Met	Cys	Gly	His	Tyr	Thr	Gln	Val	Val	Trp	Ala		
									125				130		135	
Lys	Thr	Glu	Arg	Ile	Gly	Cys	Gly	Ser	His	Phe	Cys	Glu	Lys	Leu		
									140				145		150	

P1618P2C3.txt

Gln Gly Val Glu Glu Thr Asn Ile Glu Leu Leu Val Cys Asn Tyr
 155 160 165
 Glu Pro Pro Gly Asn Val Lys Gly Lys Arg Pro Tyr Gln Glu Gly
 170 175 180
 Thr Pro Cys Ser Gln Cys Pro Ser Gly Tyr His Cys Lys Asn Ser
 185 190 195
 Leu Cys Glu Pro Ile Gly Ser Pro Glu Asp Ala Gln Asp Leu Pro
 200 205 210
 Tyr Leu Val Thr Glu Ala Pro Ser Phe Arg Ala Thr Glu Ala Ser
 215 220 225
 Asp Ser Arg Lys Met Gly Thr Pro Ser Ser Leu Ala Thr Gly Ile
 230 235 240
 Pro Ala Phe Leu Val Thr Glu Val Ser Gly Ser Leu Ala Thr Lys
 245 250 255
 Ala Leu Pro Ala Val Glu Thr Gln Ala Pro Thr Ser Leu Ala Thr
 260 265 270
 Lys Asp Pro Pro Ser Met Ala Thr Glu Ala Pro Pro Cys Val Thr
 275 280 285
 Thr Glu Val Pro Ser Ile Leu Ala Ala His Ser Leu Pro Ser Leu
 290 295 300
 Asp Glu Glu Pro Val Thr Phe Pro Lys Ser Thr His Val Pro Ile
 305 310 315
 Pro Lys Ser Ala Asp Lys Val Thr Asp Lys Thr Lys Val Pro Ser
 320 325 330
 Arg Ser Pro Glu Asn Ser Leu Asp Pro Lys Met Ser Leu Thr Gly
 335 340 345
 Ala Arg Glu Leu Leu Pro His Ala Gln Glu Glu Ala Glu Ala Glu
 350 355 360
 Ala Glu Leu Pro Pro Ser Ser Glu Val Leu Ala Ser Val Phe Pro
 365 370 375
 Ala Gln Asp Lys Pro Gly Glu Leu Gln Ala Thr Leu Asp His Thr
 380 385 390
 Gly His Thr Ser Ser Lys Ser Leu Pro Asn Phe Pro Asn Thr Ser
 395 400 405
 Ala Thr Ala Asn Ala Thr Gly Gly Arg Ala Leu Ala Leu Gln Ser
 410 415 420
 Ser Leu Pro Gly Ala Glu Gly Pro Asp Lys Pro Ser Val Val Ser
 425 430 435
 Gly Leu Asn Ser Gly Pro Gly His Val Trp Gly Pro Leu Leu Gly
 440 445 450
 Leu Leu Leu Leu Pro Pro Leu Val Leu Ala Gly Ile Phe
 455 460

P1618P2C3.txt

<210> 286
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 286
tcctgcagtt tcctgatgc 19

<210> 287
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 287
ctcatattgc acaccagtaa ttcg 24

<210> 288
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 288
atgaggagaa acgtttgatg gtggagctgc acaacacctcta ccggg 45

<210> 289
<211> 3662
<212> DNA
<213> Homo Sapien

<400> 289
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caaggcaagt tccatgagcc accttcaaag cttcgagaa gtgaaactga 200
acaacaatga attggagacc attccaaatc tgggaccagt ctcggcaa 250
attacacttc tctccttggc tggaaacagg attgttggaa tactccctga 300
acatctgaaa gagtttcagt cccttggaaac tttggacctt agcagcaaca 350
atatttcaga gctccaaact gcatttccag ccctacagct caaatatctg 400
tatctcaaca gcaaccgagt cacatcaatg gaacctgggt attttgacaa 450
tttggccaaac acactccctt tggatgttggaaac cgaatctcag 500
ctatcccacc caagatgttt aaactgcccc aactgcaaca tctcgaattt 550
aaccgaaaca agattaaaaa tgttagatgga ctgacattcc aaggccttgg 600

P1618P2C3.txt

tgctctgaag tctctgaaaa tgcaaagaaaa tggagtaacg aaacttatgg 650
atggagctt ttggggctg agcaacatgg aaatttgca gctggaccat 700
aacaacctaa cagagattac caaaggctgg cttaacggct tgctgatgct 750
gcaggaactt catctcagcc aaaatgccat caacaggatc agccctgatg 800
cctggagtt ctgccagaag ctcaagtgc tggacctaac ttcaatcac 850
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tggcttgc tgcgtatgatt ttccaaacc ccagatcagc gttcagccag 1400
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P1618P2C3.txt

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ccactgtggg tgcgtgtatc atagccgtgg tttgctgtgt ggtgggcacg 2350
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<211> 1059

P1618P2C3.txt

<212> PRT
<213> Homo Sapien

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35 40 45
Asn Asn Asn Glu Leu Glu Thr Ile Pro Asn Leu Gly Pro Val Ser
50 55 60
Ala Asn Ile Thr Leu Leu Ser Leu Ala Gly Asn Arg Ile Val Glu
65 70 75
Ile Leu Pro Glu His Leu Lys Glu Phe Gln Ser Leu Glu Thr Leu
80 85 90
Asp Leu Ser Ser Asn Asn Ile Ser Glu Leu Gln Thr Ala Phe Pro
95 100 105
Ala Leu Gln Leu Lys Tyr Leu Tyr Leu Asn Ser Asn Arg Val Thr
110 115 120
Ser Met Glu Pro Gly Tyr Phe Asp Asn Leu Ala Asn Thr Leu Leu
125 130 135
Val Leu Lys Leu Asn Arg Asn Arg Ile Ser Ala Ile Pro Pro Lys
140 145 150
Met Phe Lys Leu Pro Gln Leu Gln His Leu Glu Leu Asn Arg Asn
155 160 165
Lys Ile Lys Asn Val Asp Gly Leu Thr Phe Gln Gly Leu Gly Ala
170 175 180
Leu Lys Ser Leu Lys Met Gln Arg Asn Gly Val Thr Lys Leu Met
185 190 195
Asp Gly Ala Phe Trp Gly Leu Ser Asn Met Glu Ile Leu Gln Leu
200 205 210
Asp His Asn Asn Leu Thr Glu Ile Thr Lys Gly Trp Leu Tyr Gly
215 220 225
Leu Leu Met Leu Gln Glu Leu His Leu Ser Gln Asn Ala Ile Asn
230 235 240
Arg Ile Ser Pro Asp Ala Trp Glu Phe Cys Gln Lys Leu Ser Glu
245 250 255
Leu Asp Leu Thr Phe Asn His Leu Ser Arg Leu Asp Asp Ser Ser
260 265 270
Phe Leu Gly Leu Ser Leu Leu Asn Thr Leu His Ile Gly Asn Asn
275 280 285
Arg Val Ser Tyr Ile Ala Asp Cys Ala Phe Arg Gly Leu Ser Ser
290 295 300

P1618P2C3.txt

Leu Lys Thr Leu Asp Leu Lys Asn Asn Glu Ile Ser Trp Thr Ile
305 310 315
Glu Asp Met Asn Gly Ala Phe Ser Gly Leu Asp Lys Leu Arg Arg
320 325 330
Leu Ile Leu Gln Gly Asn Arg Ile Arg Ser Ile Thr Lys Lys Ala
335 340 345
Phe Thr Gly Leu Asp Ala Leu Glu His Leu Asp Leu Ser Asp Asn
350 355 360
Ala Ile Met Ser Leu Gln Gly Asn Ala Phe Ser Gln Met Lys Lys
365 370 375
Leu Gln Gln Leu His Leu Asn Thr Ser Ser Leu Leu Cys Asp Cys
380 385 390
Gln Leu Lys Trp Leu Pro Gln Trp Val Ala Glu Asn Asn Phe Gln
395 400 405
Ser Phe Val Asn Ala Ser Cys Ala His Pro Gln Leu Leu Lys Gly
410 415 420
Arg Ser Ile Phe Ala Val Ser Pro Asp Gly Phe Val Cys Asp Asp
425 430 435
Phe Pro Lys Pro Gln Ile Thr Val Gln Pro Glu Thr Gln Ser Ala
440 445 450
Ile Lys Gly Ser Asn Leu Ser Phe Ile Cys Ser Ala Ala Ser Ser
455 460 465
Ser Asp Ser Pro Met Thr Phe Ala Trp Lys Lys Asp Asn Glu Leu
470 475 480
Leu His Asp Ala Glu Met Glu Asn Tyr Ala His Leu Arg Ala Gln
485 490 495
Gly Gly Glu Val Met Glu Tyr Thr Thr Ile Leu Arg Leu Arg Glu
500 505 510
Val Glu Phe Ala Ser Glu Gly Lys Tyr Gln Cys Val Ile Ser Asn
515 520 525
His Phe Gly Ser Ser Tyr Ser Val Lys Ala Lys Leu Thr Val Asn
530 535 540
Met Leu Pro Ser Phe Thr Lys Thr Pro Met Asp Leu Thr Ile Arg
545 550 555
Ala Gly Ala Met Ala Arg Leu Glu Cys Ala Ala Val Gly His Pro
560 565 570
Ala Pro Gln Ile Ala Trp Gln Lys Asp Gly Gly Thr Asp Phe Pro
575 580 585
Ala Ala Arg Glu Arg Arg Met His Val Met Pro Glu Asp Asp Val
590 595 600
Phe Phe Ile Val Asp Val Lys Ile Glu Asp Ile Gly Val Tyr Ser
605 610 615

P1618P2C3.txt

Cys Thr Ala Gln Asn Ser Ala Gly Ser Ile Ser Ala Asn Ala Thr
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Leu Thr Val Leu Glu Thr Pro Ser Phe Leu Arg Pro Leu Leu Asp
635 640 645
Arg Thr Val Thr Lys Gly Glu Thr Ala Val Leu Gln Cys Ile Ala
650 655 660
Gly Gly Ser Pro Pro Lys Leu Asn Trp Thr Lys Asp Asp Ser
665 670 675
Pro Leu Val Val Thr Glu Arg His Phe Phe Ala Ala Gly Asn Gln
680 685 690
Leu Leu Ile Ile Val Asp Ser Asp Val Ser Asp Ala Gly Lys Tyr
695 700 705
Thr Cys Glu Met Ser Asn Thr Leu Gly Thr Glu Arg Gly Asn Val
710 715 720
Arg Leu Ser Val Ile Pro Thr Pro Thr Cys Asp Ser Pro Gln Met
725 730 735
Thr Ala Pro Ser Leu Asp Asp Asp Gly Trp Ala Thr Val Gly Val
740 745 750
Val Ile Ile Ala Val Val Cys Cys Val Val Gly Thr Ser Leu Val
755 760 765
Trp Val Val Ile Ile Tyr His Thr Arg Arg Arg Asn Glu Asp Cys
770 775 780
Ser Ile Thr Asn Thr Asp Glu Thr Asn Leu Pro Ala Asp Ile Pro
785 790 795
Ser Tyr Leu Ser Ser Gln Gly Thr Leu Ala Asp Arg Gln Asp Gly
800 805 810
Tyr Val Ser Ser Glu Ser Gly Ser His His Gln Phe Val Thr Ser
815 820 825
Ser Gly Ala Gly Phe Phe Leu Pro Gln His Asp Ser Ser Gly Thr
830 835 840
Cys His Ile Asp Asn Ser Ser Glu Ala Asp Val Glu Ala Ala Thr
845 850 855
Asp Leu Phe Leu Cys Pro Phe Leu Gly Ser Thr Gly Pro Met Tyr
860 865 870
Leu Lys Gly Asn Val Tyr Gly Ser Asp Pro Phe Glu Thr Tyr His
875 880 885
Thr Gly Cys Ser Pro Asp Pro Arg Thr Val Leu Met Asp His Tyr
890 895 900
Glu Pro Ser Tyr Ile Lys Lys Lys Glu Cys Tyr Pro Cys Ser His
905 910 915
Pro Ser Glu Glu Ser Cys Glu Arg Ser Phe Ser Asn Ile Ser Trp
920 925 930

P1618P2C3.txt

Pro Ser His Val Arg Lys Leu Leu Asn Thr Ser Tyr Ser His Asn
935 940 945
Glu Gly Pro Gly Met Lys Asn Leu Cys Leu Asn Lys Ser Ser Leu
950 955 960
Asp Phe Ser Ala Asn Pro Glu Pro Ala Ser Val Ala Ser Ser Asn
965 970 975
Ser Phe Met Gly Thr Phe Gly Lys Ala Leu Arg Arg Pro His Leu
980 985 990
Asp Ala Tyr Ser Ser Phe Gly Gln Pro Ser Asp Cys Gln Pro Arg
995 1000 1005
Ala Phe Tyr Leu Lys Ala His Ser Ser Pro Asp Leu Asp Ser Gly
1010 1015 1020
Ser Glu Glu Asp Gly Lys Glu Arg Thr Asp Phe Gln Glu Glu Asn
1025 1030 1035
His Ile Cys Thr Phe Lys Gln Thr Leu Glu Asn Tyr Arg Thr Pro
1040 1045 1050
Asn Phe Gln Ser Tyr Asp Leu Asp Thr
1055

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<211> 2906
<212> DNA
<213> Homo Sapien

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gaagctttttt cttgtgagcc ctggatctta acacaaatgt gtatatgtgc 200
acacaggggag cattcaagaa tggaaataaac cagagttaga cccgcggggg 250
ttggtgtgtt ctgacataaa taaataatct taaagcagct gttccctcc 300
ccaccccaa aaaaaaggat gattggaaat gaagaaccga ggattcacaa 350
agaaaaaaagt atgttcattt ttctctataa aggagaaaagt gagccaagga 400
gatatttttggatgaaaag ttggggctt tttagtaaa gtaaagaact 450
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P1618P2C3.txt

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<211> 640

<212> PRT

<213> Homo Sapien

<400> 292

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									20					30
Leu	Ala	Leu	Gln	Leu	Leu	Val	Val	Ala	Gly	Leu	Val	Arg	Ala	Gln
									35					45
Thr	Cys	Pro	Ser	Val	Cys	Ser	Cys	Ser	Asn	Gln	Phe	Ser	Lys	Val
									50					60
Ile	Cys	Val	Arg	Lys	Asn	Leu	Arg	Glu	Val	Pro	Asp	Gly	Ile	Ser
									65					75
Thr	Asn	Thr	Arg	Leu	Leu	Asn	Leu	His	Glu	Asn	Gln	Ile	Gln	Ile
									80					90
Ile	Lys	Val	Asn	Ser	Phe	Lys	His	Leu	Arg	His	Leu	Glu	Ile	Leu
									95					105
Gln	Leu	Ser	Arg	Asn	His	Ile	Arg	Thr	Ile	Glu	Ile	Gly	Ala	Phe
									110					120
Asn	Gly	Leu	Ala	Asn	Leu	Asn	Thr	Leu	Glu	Leu	Phe	Asp	Asn	Arg
									125					135
Leu	Thr	Thr	Ile	Pro	Asn	Gly	Ala	Phe	Val	Tyr	Leu	Ser	Lys	Leu
									140					150
Lys	Glu	Leu	Trp	Leu	Arg	Asn	Asn	Pro	Ile	Glu	Ser	Ile	Pro	Ser

P1618P2C3.txt

155

160

165

Tyr Ala Phe Asn Arg Ile Pro Ser Leu Arg Arg Leu Asp Leu Gly
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 Glu Leu Lys Arg Leu Ser Tyr Ile Ser Glu Gly Ala Phe Glu Gly
 185 190 195
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 200 205 210
 Glu Ile Pro Asn Leu Thr Pro Leu Ile Lys Leu Asp Glu Leu Asp
 215 220 225
 Leu Ser Gly Asn His Leu Ser Ala Ile Arg Pro Gly Ser Phe Gln
 230 235 240
 Gly Leu Met His Leu Gln Lys Leu Trp Met Ile Gln Ser Gln Ile
 245 250 255
 Gln Val Ile Glu Arg Asn Ala Phe Asp Asn Leu Gln Ser Leu Val
 260 265 270
 Glu Ile Asn Leu Ala His Asn Asn Leu Thr Leu Leu Pro His Asp
 275 280 285
 Leu Phe Thr Pro Leu His His Leu Glu Arg Ile His Leu His His
 290 295 300
 Asn Pro Trp Asn Cys Asn Cys Asp Ile Leu Trp Leu Ser Trp Trp
 305 310 315
 Ile Lys Asp Met Ala Pro Ser Asn Thr Ala Cys Cys Ala Arg Cys
 320 325 330
 Asn Thr Pro Pro Asn Leu Lys Gly Arg Tyr Ile Gly Glu Leu Asp
 335 340 345
 Gln Asn Tyr Phe Thr Cys Tyr Ala Pro Val Ile Val Glu Pro Pro
 350 355 360
 Ala Asp Leu Asn Val Thr Glu Gly Met Ala Ala Glu Leu Lys Cys
 365 370 375
 Arg Ala Ser Thr Ser Leu Thr Ser Val Ser Trp Ile Thr Pro Asn
 380 385 390
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 395 400 405
 Leu Ser Asp Gly Thr Leu Asn Phe Thr Asn Val Thr Val Gln Asp
 410 415 420
 Thr Gly Met Tyr Thr Cys Met Val Ser Asn Ser Val Gly Asn Thr
 425 430 435
 Thr Ala Ser Ala Thr Leu Asn Val Thr Ala Ala Thr Thr Thr Pro
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 Phe Ser Tyr Phe Ser Thr Val Thr Val Glu Thr Met Glu Pro Ser
 455 460 465
 Gln Asp Glu Ala Arg Thr Thr Asp Asn Asn Val Gly Pro Thr Pro

P1618P2C3.txt

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500	505	510
Asp Ile Asn Ser Gly Ile Pro Gly Ile	Asp Glu Val Met Lys	Thr
515	520	525
Thr Lys Ile Ile Ile Gly Cys Phe Val	Ala Ile Thr Leu Met Ala	
530	535	540
Ala Val Met Leu Val Ile Phe Tyr Lys	Met Arg Lys Gln His	His
545	550	555
Arg Gln Asn His His Ala Pro Thr Arg	Thr Val Glu Ile Ile Asn	
560	565	570
Val Asp Asp Glu Ile Thr Gly Asp Thr	Pro Met Glu Ser His	Leu
575	580	585
Pro Met Pro Ala Ile Glu His Glu His	Leu Asn His Tyr Asn	Ser
590	595	600
Tyr Lys Ser Pro Phe Asn His Thr Thr	Thr Val Asn Thr Ile Asn	
605	610	615
Ser Ile His Ser Ser Val His Glu Pro	Leu Leu Ile Arg Met Asn	
620	625	630
Ser Lys Asp Asn Val Gln Glu Thr Gln	Ile	
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 <211> 4053
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P1618P2C3.txt

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tccggggccca aggtggcgag gtgtatggagt ataccaccat cttcggctg 1950
cgcgagggtgg aatttgcag tgagggaaa tatcagtgtg tcatctccaa 2000
tcactttggc tcatcctact ctgtcaagc caagcttaca gttaaatatgc 2050
ttccctcatt caccaagacc cccatggatc tcaccatccg agctggggcc 2100
atggcacgct tggagtgtgc tgctgtgggg cacccagccc cccagatgc 2150

P1618P2C3.txt

P1618P2C3.txt

aattttaaaa ggataaaaaat gctttattta tacagatgaa cccaaattac 3750
aaaaagttat gaaaattttt atactggaa tgatgctcat ataagaatac 3800
cttttaaac tatttttaa cttgtttta tgcaaaaaag tatcttacgt 3850
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tttctttta tggaaaatga gttactaaag catttaaat aatacctgcc 3950
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ttaataaaaa tgtgtcaatt tgaaaaaaaaaaaaaaaaaaaa 4050
aaa 4053

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<211> 1119

<212> PRT

<213> Homo Sapien

<400> 294

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Gly	Arg	Gly	Glu	Leu	Gly	Gln	Pro	Ser	Gly	Val	Ala	Ala	Glu	Arg
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Pro	Cys	Pro	Thr	Thr	Cys	Arg	Cys	Leu	Gly	Asp	Leu	Leu	Asp	Cys
				50					55			60		
Ser	Arg	Lys	Arg	Leu	Ala	Arg	Leu	Pro	Glu	Pro	Leu	Pro	Ser	Trp
				65					70			75		
Val	Ala	Arg	Leu	Asp	Leu	Ser	His	Asn	Arg	Leu	Ser	Phe	Ile	Lys
				80					85			90		
Ala	Ser	Ser	Met	Ser	His	Leu	Gln	Ser	Leu	Arg	Glu	Val	Lys	Leu
				95					100			105		
Asn	Asn	Asn	Glu	Leu	Glu	Thr	Ile	Pro	Asn	Leu	Gly	Pro	Val	Ser
				110					115			120		
Ala	Asn	Ile	Thr	Leu	Leu	Ser	Leu	Ala	Gly	Asn	Arg	Ile	Val	Glu
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Ile	Leu	Pro	Glu	His	Leu	Lys	Glu	Phe	Gln	Ser	Leu	Glu	Thr	Leu
				140					145			150		
Asp	Leu	Ser	Ser	Asn	Asn	Ile	Ser	Glu	Leu	Gln	Thr	Ala	Phe	Pro
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Ala	Leu	Gln	Leu	Lys	Tyr	Leu	Tyr	Leu	Asn	Ser	Asn	Arg	Val	Thr
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Ser	Met	Glu	Pro	Gly	Tyr	Phe	Asp	Asn	Leu	Ala	Asn	Thr	Leu	Leu
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Val	Leu	Lys	Leu	Asn	Arg	Asn	Arg	Ile	Ser	Ala	Ile	Pro	Pro	Lys
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P1618P2C3.txt

Met Phe Lys Leu Pro Gln Leu Gln His Leu Glu Leu Asn Arg Asn
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Lys Ile Lys Asn Val Asp Gly Leu Thr Phe Gln Gly Leu Gly Ala
230 235 240
Leu Lys Ser Leu Lys Met Gln Arg Asn Gly Val Thr Lys Leu Met
245 250 255
Asp Gly Ala Phe Trp Gly Leu Ser Asn Met Glu Ile Leu Gln Leu
260 265 270
Asp His Asn Asn Leu Thr Glu Ile Thr Lys Gly Trp Leu Tyr Gly
275 280 285
Leu Leu Met Leu Gln Glu Leu His Leu Ser Gln Asn Ala Ile Asn
290 295 300
Arg Ile Ser Pro Asp Ala Trp Glu Phe Cys Gln Lys Leu Ser Glu
305 310 315
Leu Asp Leu Thr Phe Asn His Leu Ser Arg Leu Asp Asp Ser Ser
320 325 330
Phe Leu Gly Leu Ser Leu Leu Asn Thr Leu His Ile Gly Asn Asn
335 340 345
Arg Val Ser Tyr Ile Ala Asp Cys Ala Phe Arg Gly Leu Ser Ser
350 355 360
Leu Lys Thr Leu Asp Leu Lys Asn Asn Glu Ile Ser Trp Thr Ile
365 370 375
Glu Asp Met Asn Gly Ala Phe Ser Gly Leu Asp Lys Leu Arg Arg
380 385 390
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395 400 405
Phe Thr Gly Leu Asp Ala Leu Glu His Leu Asp Leu Ser Asp Asn
410 415 420
Ala Ile Met Ser Leu Gln Gly Asn Ala Phe Ser Gln Met Lys Lys
425 430 435
Leu Gln Gln Leu His Leu Asn Thr Ser Ser Leu Leu Cys Asp Cys
440 445 450
Gln Leu Lys Trp Leu Pro Gln Trp Val Ala Glu Asn Asn Phe Gln
455 460 465
Ser Phe Val Asn Ala Ser Cys Ala His Pro Gln Leu Leu Lys Gly
470 475 480
Arg Ser Ile Phe Ala Val Ser Pro Asp Gly Phe Val Cys Asp Asp
485 490 495
Phe Pro Lys Pro Gln Ile Thr Val Gln Pro Glu Thr Gln Ser Ala
500 505 510
Ile Lys Gly Ser Asn Leu Ser Phe Ile Cys Ser Ala Ala Ser Ser
515 520 525

P1618P2C3.txt

Ser Asp Ser Pro Met Thr Phe Ala Trp Lys Lys Asp Asn Glu Leu
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Leu His Asp Ala Glu Met Glu Asn Tyr Ala His Leu Arg Ala Gln
545 550 555
Gly Gly Glu Val Met Glu Tyr Thr Thr Ile Leu Arg Leu Arg Glu
560 565 570
Val Glu Phe Ala Ser Glu Gly Lys Tyr Gln Cys Val Ile Ser Asn
575 580 585
His Phe Gly Ser Ser Tyr Ser Val Lys Ala Lys Leu Thr Val Asn
590 595 600
Met Leu Pro Ser Phe Thr Lys Thr Pro Met Asp Leu Thr Ile Arg
605 610 615
Ala Gly Ala Met Ala Arg Leu Glu Cys Ala Ala Val Gly His Pro
620 625 630
Ala Pro Gln Ile Ala Trp Gln Lys Asp Gly Gly Thr Asp Phe Pro
635 640 645
Ala Ala Arg Glu Arg Arg Met His Val Met Pro Glu Asp Asp Val
650 655 660
Phe Phe Ile Val Asp Val Lys Ile Glu Asp Ile Gly Val Tyr Ser
665 670 675
Cys Thr Ala Gln Asn Ser Ala Gly Ser Ile Ser Ala Asn Ala Thr
680 685 690
Leu Thr Val Leu Glu Thr Pro Ser Phe Leu Arg Pro Leu Leu Asp
695 700 705
Arg Thr Val Thr Lys Gly Glu Thr Ala Val Leu Gln Cys Ile Ala
710 715 720
Gly Gly Ser Pro Pro Lys Leu Asn Trp Thr Lys Asp Asp Ser
725 730 735
Pro Leu Val Val Thr Glu Arg His Phe Phe Ala Ala Gly Asn Gln
740 745 750
Leu Leu Ile Ile Val Asp Ser Asp Val Ser Asp Ala Gly Lys Tyr
755 760 765
Thr Cys Glu Met Ser Asn Thr Leu Gly Thr Glu Arg Gly Asn Val
770 775 780
Arg Leu Ser Val Ile Pro Thr Pro Thr Cys Asp Ser Pro Gln Met
785 790 795
Thr Ala Pro Ser Leu Asp Asp Asp Gly Trp Ala Thr Val Gly Val
800 805 810
Val Ile Ile Ala Val Val Cys Cys Val Val Gly Thr Ser Leu Val
815 820 825
Trp Val Val Ile Ile Tyr His Thr Arg Arg Arg Asn Glu Asp Cys
830 835 840

P1618P2C3.txt

Ser Ile Thr Asn Thr Asp Glu Thr Asn Leu Pro Ala Asp Ile Pro
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Ser Tyr Leu Ser Ser Gln Gly Thr Leu Ala Asp Arg Gln Asp Gly
860 865 870
Tyr Val Ser Ser Glu Ser Gly Ser His His Gln Phe Val Thr Ser
875 880 885
Ser Gly Ala Gly Phe Phe Leu Pro Gln His Asp Ser Ser Gly Thr
890 895 900
Cys His Ile Asp Asn Ser Ser Glu Ala Asp Val Glu Ala Ala Thr
905 910 915
Asp Leu Phe Leu Cys Pro Phe Leu Gly Ser Thr Gly Pro Met Tyr
920 925 930
Leu Lys Gly Asn Val Tyr Gly Ser Asp Pro Phe Glu Thr Tyr His
935 940 945
Thr Gly Cys Ser Pro Asp Pro Arg Thr Val Leu Met Asp His Tyr
950 955 960
Glu Pro Ser Tyr Ile Lys Lys Lys Glu Cys Tyr Pro Cys Ser His
965 970 975
Pro Ser Glu Glu Ser Cys Glu Arg Ser Phe Ser Asn Ile Ser Trp
980 985 990
Pro Ser His Val Arg Lys Leu Leu Asn Thr Ser Tyr Ser His Asn
995 1000 1005
Glu Gly Pro Gly Met Lys Asn Leu Cys Leu Asn Lys Ser Ser Leu
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Asp Phe Ser Ala Asn Pro Glu Pro Ala Ser Val Ala Ser Ser Asn
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Ser Phe Met Gly Thr Phe Gly Lys Ala Leu Arg Arg Pro His Leu
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Asp Ala Tyr Ser Ser Phe Gly Gln Pro Ser Asp Cys Gln Pro Arg
1055 1060 1065
Ala Phe Tyr Leu Lys Ala His Ser Ser Pro Asp Leu Asp Ser Gly
1070 1075 1080
Ser Glu Glu Asp Gly Lys Glu Arg Thr Asp Phe Gln Glu Glu Asn
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Asn Phe Gln Ser Tyr Asp Leu Asp Thr
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P1618P2C3.txt

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<220>
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<400> 296
cctaaactga actggacca 19

<210> 297
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<220>
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<400> 297
ggctggagac actgaacct 19

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<220>
<223> Synthetic oligonucleotide Probe

<400> 298
acagctgcac agctcagaac agtg 24

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<220>
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<400> 299
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<400> 300
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P1618P2C3.txt

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<220>
<223> Synthetic Oligonucleotide Probe

<400> 304
ccccatgtgt ccatgactgt tccc 24

<210> 305
<211> 45
<212> DNA
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<220>
<223> Synthetic Oligonucleotide Probe

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<220>
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P1618P2C3.txt

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<212> DNA
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<220>
<223> Synthetic oligonucleotide probe

<400> 307
ttagcagctg aggatggca caac 24

<210> 308
<211> 24
<212> DNA
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<220>
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<400> 308
actccaagga aatcgatcc gttc 24

<210> 309
<211> 50
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<220>
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<210> 310
<211> 3296
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<213> Homo Sapien

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P1618P2C3.txt

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P1618P2C3.txt

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<210> 312

<211> 22

<212> DNA

<213> Artificial Sequence

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P1618P2C3.txt

<223> Synthetic Oligonucleotide Probe

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<211> 3003
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P1618P2C3.txt

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 35 40 45
 Trp Gly Trp Ala Arg Gln Ser Trp Gly Gln Cys Gln Pro Val Cys
 50 55 60
 Gln Pro Arg Cys Lys His Gly Glu Cys Ile Gly Pro Asn Lys Cys
 65 70 75
 Lys Cys His Pro Gly Tyr Ala Gly Lys Thr Cys Asn Gln Asp Leu
 80 85 90
 Asn Glu Cys Gly Leu Lys Pro Arg Pro Cys Lys His Arg Cys Met
 95 100 105
 Asn Thr Tyr Gly Ser Tyr Lys Cys Tyr Cys Leu Asn Gly Tyr Met
 110 115 120
 Leu Met Pro Asp Gly Ser Cys Ser Ser Ala Leu Thr Cys Ser Met
 125 130 135
 Ala Asn Cys Gln Tyr Gly Cys Asp Val Val Lys Gly Gln Ile Arg
 140 145 150
 Cys Gln Cys Pro Ser Pro Gly Leu His Leu Ala Pro Asp Gly Arg
 155 160 165
 Thr Cys Val Asp Val Asp Glu Cys Ala Thr Gly Arg Ala Ser Cys
 170 175 180
 Pro Arg Phe Arg Gln Cys Val Asn Thr Phe Gly Ser Tyr Ile Cys
 185 190 195

P1618P2C3.txt

Lys Cys His Lys Gly Phe Asp Leu Met Tyr Ile Gly Gly Lys Tyr
200 205 210

Gln Cys His Asp Ile Asp Glu Cys Ser Leu Gly Gln Tyr Gln Cys
215 220 225

Ser Ser Phe Ala Arg Cys Tyr Asn Val Arg Gly Ser Tyr Lys Cys
230 235 240

Lys Cys Lys Glu Gly Tyr Gln Gly Asp Gly Leu Thr Cys Val Tyr
245 250 255

Ile Pro Lys Val Met Ile Glu Pro Ser Gly Pro Ile His Val Pro
260 265 270

Lys Gly Asn Gly Thr Ile Leu Lys Gly Asp Thr Gly Asn Asn Asn
275 280 285

Trp Ile Pro Asp Val Gly Ser Thr Trp Trp Pro Pro Lys Thr Pro
290 295 300

Tyr Ile Pro Pro Ile Ile Thr Asn Arg Pro Thr Ser Lys Pro Thr
305 310 315

Thr Arg Pro Thr Pro Lys Pro Thr Pro Ile Pro Thr Pro Pro Pro
320 325 330

Pro Pro Pro Leu Pro Thr Glu Leu Arg Thr Pro Leu Pro Pro Thr
335 340 345

Thr Pro Glu Arg Pro Thr Thr Gly Leu Thr Thr Ile Ala Pro Ala
350 355 360

Ala Ser Thr Pro Pro Gly Gly Ile Thr Val Asp Asn Arg Val Gln
365 370 375

Thr Asp Pro Gln Lys Pro Arg Gly Asp Val Phe Ser Val Leu Val
380 385 390

His Ser Cys Asn Phe Asp His Gly Leu Cys Gly Trp Ile Arg Glu
395 400 405

Lys Asp Asn Asp Leu His Trp Glu Pro Ile Arg Asp Pro Ala Gly
410 415 420

Gly Gln Tyr Leu Thr Val Ser Ala Ala Lys Ala Pro Gly Gly Lys
425 430 435

Ala Ala Arg Leu Val Leu Pro Leu Gly Arg Leu Met His Ser Gly
440 445 450

Asp Leu Cys Leu Ser Phe Arg His Lys Val Thr Gly Leu His Ser
455 460 465

Gly Thr Leu Gln Val Phe Val Arg Lys His Gly Ala His Gly Ala
470 475 480

Ala Leu Trp Gly Arg Asn Gly Gly His Gly Trp Arg Gln Thr Gln
485 490 495

Ile Thr Leu Arg Gly Ala Asp Ile Lys Ser Glu Ser Gln Arg
500 505

P1618P2C3.txt

<210> 316
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 316
gatggttcct gctcaagtgc cctg 24

<210> 317
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 317
ttgcacttgt aggaccacg tacg 24

<210> 318
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 318
ctgatgggag gacctgtgta gatgttgatg aatgtgctac aggaagagcc 50

<210> 319
<211> 2110
<212> DNA
<213> Homo Sapien

<400> 319
cttcttgaa aaggattatc acctgatcag gttctcttg catttgcggc 50
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caacaggtgc ttgctcgggg ctgaaggtga cagtgcacatc acacactgtc 150
catggcgtca gaggtcaggc cctctaccta cccgtccact atggcttcca 200
caactccagca tcagacatcc agatcatatg gctatttgag agacccccaca 250
caatgcccua atacttactg ggctctgtga ataagtctgt ggttcctgac 300
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tatcaacccca ctgcagttcc ctgatgaagg caattacatc gtgaagggtca 400
acattcaggg aaatggaact ctatctgcca gtcagaagat acaagtcacg 450
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ggctgtggag tatgtgggaa acatgaccct gacatgccat gtgaaagggg 550
gcactcggct agcttaccaa tggctaaaaa atgggagacc tgtccacacc 600

P1618P2C3.txt

agctccacct actcctttc tccccaaaac aatacccttc atattgctcc 650
agtaaccaag gaagacattg ggaattacag ctgcctggtg aggaaccctg 700
tcagtgaaat ggaaagtgtat atcattatgc ccatcatata ttatggacct 750
tatggacttc aagtgaattc tgataaaggg ctaaaagttag gggaaagtgtt 800
tactgttgac cttggagagg ccatcctatt tgattgttct gctgattctc 850
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atcattaagc atgggcctcg cttagaagtt gcatctgaga aagtagcccc 950
gaagacaatg gactatgtgt gctgtgctta caacaacata accggcaggc 1000
aagatgaaac tcatttcaca gttatcatca cttccgttagg actggagaag 1050
cttgcacaga aaggaaaatc attgtcacct ttagcaagta taactggaat 1100
atcactatTT ttgattatAT ccatgtgtct tctcttccta tgaaaaaaat 1150
atcaacccta caaagttata aaacagaaac tagaaggcag gccagaaaca 1200
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acactttcac tatcatcaac actgagacta tcctgtctca cctacaaatg 1800
tggaaacttt acattgtcg attttcagc agactttgtt ttattaaatt 1850
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ttctatcttg ttattgtac aacaaagtaa taaggatggt tgtcacaaaa 1950
acaaaaactat gccttcctt tttttcaat caccagtagt atttttgaga 2000
agacttgcgt acaacttaagg aaatgactat taaagtctta tttttatTTT 2050
tttcaaggaa agatggattc aaataaatta ttctgtttt gctttaaaa 2100
aaaaaaaaaa 2110

P1618P2C3.txt

<211> 450
<212> PRT
<213> Homo Sapien

<400> 320
Met Trp Leu Lys Val Phe Thr Thr Phe Leu Ser Phe Ala Thr Gly
1 5 10 15
Ala Cys Ser Gly Leu Lys Val Thr Val Pro Ser His Thr Val His
20 25 30
Gly Val Arg Gly Gln Ala Leu Tyr Leu Pro Val His Tyr Gly Phe
35 40 45
His Thr Pro Ala Ser Asp Ile Gln Ile Ile Trp Leu Phe Glu Arg
50 55 60
Pro His Thr Met Pro Lys Tyr Leu Leu Gly Ser Val Asn Lys Ser
65 70 75
Val Val Pro Asp Leu Glu Tyr Gln His Lys Phe Thr Met Met Pro
80 85 90
Pro Asn Ala Ser Leu Leu Ile Asn Pro Leu Gln Phe Pro Asp Glu
95 100 105
Gly Asn Tyr Ile Val Lys Val Asn Ile Gln Gly Asn Gly Thr Leu
110 115 120
Ser Ala Ser Gln Lys Ile Gln Val Thr Val Asp Asp Pro Val Thr
125 130 135
Lys Pro Val Val Gln Ile His Pro Pro Ser Gly Ala Val Glu Tyr
140 145 150
Val Gly Asn Met Thr Leu Thr Cys His Val Glu Gly Gly Thr Arg
155 160 165
Leu Ala Tyr Gln Trp Leu Lys Asn Gly Arg Pro Val His Thr Ser
170 175 180
Ser Thr Tyr Ser Phe Ser Pro Gln Asn Asn Thr Leu His Ile Ala
185 190 195
Pro Val Thr Lys Glu Asp Ile Gly Asn Tyr Ser Cys Leu Val Arg
200 205 210
Asn Pro Val Ser Glu Met Glu Ser Asp Ile Ile Met Pro Ile Ile
215 220 225
Tyr Tyr Gly Pro Tyr Gly Leu Gln Val Asn Ser Asp Lys Gly Leu
230 235 240
Lys Val Gly Glu Val Phe Thr Val Asp Leu Gly Glu Ala Ile Leu
245 250 255
Phe Asp Cys Ser Ala Asp Ser His Pro Pro Asn Thr Tyr Ser Trp
260 265 270
Ile Arg Arg Thr Asp Asn Thr Thr Tyr Ile Ile Lys His Gly Pro
275 280 285
Arg Leu Glu Val Ala Ser Glu Lys Val Ala Gln Lys Thr Met Asp

P1618P2C3.txt

290

295

300

Tyr Val Cys Cys Ala Tyr Asn Asn Ile Thr Gly Arg Gln Asp Glu
305 310 315

Thr His Phe Thr Val Ile Ile Thr Ser Val Gly Leu Glu Lys Leu
320 325 330

Ala Gln Lys Gly Lys Ser Leu Ser Pro Leu Ala Ser Ile Thr Gly
335 340 345

Ile Ser Leu Phe Leu Ile Ile Ser Met Cys Leu Leu Phe Leu Trp
350 355 360

Lys Lys Tyr Gln Pro Tyr Lys Val Ile Lys Gln Lys Leu Glu Gly
365 370 375

Arg Pro Glu Thr Glu Tyr Arg Lys Ala Gln Thr Phe Ser Gly His
380 385 390

Glu Asp Ala Leu Asp Asp Phe Gly Ile Tyr Glu Phe Val Ala Phe
395 400 405

Pro Asp Val Ser Gly Val Ser Arg Ile Pro Ser Arg Ser Val Pro
410 415 420

Ala Ser Asp Cys Val Ser Gly Gln Asp Leu His Ser Thr Val Tyr
425 430 435

Glu Val Ile Gln His Ile Pro Ala Gln Gln Gln Asp His Pro Glu
440 445 450

<210> 321

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 321

gatcctgtca caaagccagt ggtgc 25

<210> 322

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 322

cactgacagg gttcctcacc cagg 24

<210> 323

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 323

P1618P2C3.txt

ctccctctgg gctgtggagt atgtggggaa catgaccctg acatg 45

<210> 324

<211> 2397

<212> DNA

<213> Homo Sapien

<400> 324

gcaagcggcg aatggcgcc ctccgggagt cttgcagttc ccctggcagt 50

cctggtgctg ttgctttggg gtgctccctg gacgcacggg cggcggagca 100

acgttcgcgt catcacggac gagaactgga gagaactgct ggaaggagac 150

tggatgatag aattttatgc cccgtggtgc cctgctgtc aaaatcttca 200

accggaatgg gaaagtttg ctgaatgggg agaagatctt gaggttaata 250

ttgcgaaagt agatgtcaca gaggcagccag gactgagtgg acggtttatac 300

ataactgctc ttcctactat ttatcattgt aaagatggtg aattttaggac 350

ctatcagggt ccaaggacta agaaggactt cataaacttt ataagtata 400

aagagtggaa gagtattgag cccgtttcat catggttgg tccaggttct 450

gttctgatga gtagtatgtc agcactctt cagctatcta tgtggatcag 500

gacgtgccat aactacttta ttgaagacct tggattgcca gtgtggggat 550

catatactgt ttttgcctta gcaactctgt tttccggact gttatttagga 600

ctctgtatga tatttgtggc agattgcctt tgtccttcaa aaaggcgcag 650

accacagcca tacccataacc cttcaaaaaa attattatca gaatctgcac 700

aacctttgaa aaaagtggag gaggaacaag aggcggatga agaagatgtt 750

tcagaagaag aagctgaaag taaaagaagga acaaacaag accttccaca 800

gaatgccata agacaacgct ctctgggtcc atcattggcc acagataaat 850

cctagttaaa ttttatagtt atcttaatat tatgattttg ataaaaacag 900

aagattgatc atttgtttt gttgaagtg aactgtgact ttttgaata 950

ttgcagggtt cagtctagat tgtcattaaa ttgaagagtc tacattcaga 1000

acataaaaagc actaggata caagttgaa atatgattt agcacagtat 1050

gatggttaa atagttctct aattttgaa aaatcgtgcc aagcaataag 1100

atttatgtat atttggtaa taataaccta tttcaagtct gagtttgaa 1150

aatttacatt tcccaagtat tgcattattt aggtatttaa gaagattatt 1200

tttagagaaaa atatttctca ttgatataa ttttctctg tttcactgtg 1250

tgaaaaaaag aagatatttc ccataaatgg gaagttgcc cattgtctca 1300

agaaatgtgt atttcagtga caatttcgtg gtcttttag aggtatattc 1350

caaaatttcc ttgtatTTT aggttatgca actaataaaa actaccc tac 1400

P1618P2C3.txt

attaaataat tacagtttc tacacatggt aatacaggat atgctactga 1450
tttaggaagt ttttagttc atggattctt ctgttattcca acaaagttt 1500
attttctctt gtatTTTCT tacttactat gggttacatt ttttattttt 1550
caaattggat gataattctt tggaaacatt ttttatgttt tagtaaacag 1600
tatttttttgc ttgtttcaaa ctgaagttt ctgagagatc catcaaattt 1650
aacaatctgt tgtaatttaa aattttggcc actttttca gattttacat 1700
cattcttgct gaacttcaac ttgaaattgt ttttttttc tttttggatg 1750
tgaagggtgaa cattcctgat tttgtctga tggaaaaag ctttggatt 1800
ttacattttg aaaattcaaa gaagcttaat ataaaagttt gcattctact 1850
cagggaaaaag catcttcttgc tatatgtctt aaatgtatTT ttgtcctcat 1900
atacagaaag ttcttaatttgc attttacagt ctgtaatgct tgatgtttt 1950
aaataataac atttttatTT ttTTaaaag acaaacttca tattatcctg 2000
tggccttcc tgactggtaa tattgtgtgg gatttcacag gtaaaagtca 2050
gttaggatgga acatTTtagt gtatTTTAC tccttaaaga gctagaatac 2100
atagtttca ccttaaaaga agggggaaaa tcataaatac aatgaatcaa 2150
ctgaccatttca cgttagtagac aatttctgtt atgtcccTT ctttcttaggc 2200
tctgttgctg tggatcca tttagatttac agtacgttac tatacaagtt 2250
ttctttaaag ccctctcTT tagaatttaa aatattgtac cattaaagag 2300
tttggatgttgc taacttgc tgccttagaa aaatatccta agcacaAAat 2350
aaacctttctt aaccacttca ttAAAGCTGA aaaaaaaaaaaa aaaaaaaaa 2397

<210> 325
<211> 280
<212> PRT
<213> Homo Sapien

<400> 325
 Met Ala Pro Ser Gly Ser Leu Ala Val Pro Leu Ala Val Leu Val
 1 5 10 15
 Leu Leu Leu Trp Gly Ala Pro Trp Thr His Gly Arg Arg Ser Asn
 20 25 30
 Val Arg Val Ile Thr Asp Glu Asn Trp Arg Glu Leu Leu Glu Gly
 35 40 45
 Asp Trp Met Ile Glu Phe Tyr Ala Pro Trp Cys Pro Ala Cys Gln
 50 55 60
 Asn Leu Gln Pro Glu Trp Glu Ser Phe Ala Glu Trp Gly Glu Asp
 65 70 75
 Leu Glu Val Asn Ile Ala Lys Val Asp Val Thr Glu Gln Pro Gly

P1618P2C3.txt

80

85

90

Leu	Ser	Gly	Arg	Phe	Ile	Ile	Thr	Ala	Leu	Pro	Thr	Ile	Tyr	His
95									100					105
Cys	Lys	Asp	Gly	Glu	Phe	Arg	Arg	Tyr	Gln	Gly	Pro	Arg	Thr	Lys
	110								115					120
Lys	Asp	Phe	Ile	Asn	Phe	Ile	Ser	Asp	Lys	Glu	Trp	Lys	Ser	Ile
	125								130					135
Glu	Pro	Val	Ser	Ser	Trp	Phe	Gly	Pro	Gly	Ser	Val	Leu	Met	Ser
	140								145					150
Ser	Met	Ser	Ala	Leu	Phe	Gln	Leu	Ser	Met	Trp	Ile	Arg	Thr	Cys
	155								160					165
His	Asn	Tyr	Phe	Ile	Glu	Asp	Leu	Gly	Leu	Pro	Val	Trp	Gly	Ser
	170								175					180
Tyr	Thr	Val	Phe	Ala	Leu	Ala	Thr	Leu	Phe	Ser	Gly	Leu	Leu	
	185								190					
Gly	Leu	Cys	Met	Ile	Phe	Val	Ala	Asp	Cys	Leu	Cys	Pro	Ser	Lys
	200								205					210
Arg	Arg	Arg	Pro	Gln	Pro	Tyr	Pro	Tyr	Pro	Ser	Lys	Lys	Leu	
	215								220					
Ser	Glu	Ser	Ala	Gln	Pro	Leu	Lys	Lys	Val	Glu	Glu	Glu	Gln	Glu
	230								235					240
Ala	Asp	Glu	Glu	Asp	Val	Ser	Glu	Glu	Glu	Ala	Glu	Ser	Lys	Glu
	245								250					255
Gly	Thr	Asn	Lys	Asp	Phe	Pro	Gln	Asn	Ala	Ile	Arg	Gln	Arg	Ser
	260								265					270
Leu	Gly	Pro	Ser	Leu	Ala	Thr	Asp	Lys	Ser					
	275								280					

<210> 326

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 326

tgaggtgggc aagcggcgaa atg 23

<210> 327

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 327

tatgtggatc aggacgtgcc 20

P1618P2C3.txt

<210> 328
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 328
tgcagggttc agtctagatt g 21

<210> 329
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 329
ttgaaggaca aaggcaatct gccac 25

<210> 330
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 330
ggagtcttgc agttcccttg gcagtcctgg tgctgttgct ttggg 45

<210> 331
<211> 2168
<212> DNA
<213> Homo Sapien

<400> 331
gcgagtgtcc agctgcggag acccggtata attcgtaac taattcaaca 50
aacgggaccc ttctgtgtgc cagaaaccgc aagcagttgc taacccagtg 100
ggacaggcgg attggaagag cggaaaggtc ctggccaga gcagtgtgac 150
acttccctct gtgaccatga aactctgggt gtctgcattg ctgatggcct 200
ggtttggtgt cctgagctgt gtgcaggccg aattcttcac ctctattggg 250
cacatgactg acctgattta tgccagagaaa gagctggtgc agtctctgaa 300
agagtacatc cttgtggagg aagccaagct ttccaagatt aagagctggg 350
ccaaacaaaat ggaagccttg actagcaagt cagctgctga tgctgagggc 400
tacctggctc accctgtgaa tgcctacaaa ctggtaagc ggctaaacac 450
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ttatcgccaa cctctctgtc cagcggcagt tcttccccac tcatgaggac 550
gagataggag ctgccaaagc cctgatgaga cttcaggaca catacaggct 600

P1618P2C3.txt

ggaccaggc acaattcca gaggggaact tccaggaacc aagtaccagg 650
caatgctgag tgtggatgac tgcttggga tggccgctc ggcctacaat 700
gaagggact attatcatac ggtgttgtgg atggagcagg tgctaaagca 750
gcttcatgac ggggaggagg ccaccacaac caagtcacag gtgctggact 800
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gaatctgcgg tactttgagc agttatttggaa ggaagagaga gaaaaaacgt 950
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ccaataagtg gttccatgaa cgaggacagg agttcttgag accttggta 1750
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accatactag ggcgactcct gtgtgactga agtcccagcc cttccattca 1950
gcctgtgcca tccctggccc caaggctagg atcaaagtgg ctgcagcaga 2000
gttagctgatc tagcgcttag caaggtgcct ttgtacacta ggtgttttag 2050
gtgtgagatg tttcagtgaa ccaaagtct gataccttgc ttacatgttt 2100
gttttatgg catttctatc tatttgtggct ttacaaaaaa ataaaatgtc 2150
cctaccagaa aaaaaaaa 2168

P1618P2C3.txt

<210> 332
<211> 533
<212> PRT
<213> Homo Sapien

<400> 332
Met Lys Leu Trp Val Ser Ala Leu Leu Met Ala Trp Phe Gly Val
1 5 10 15
Leu Ser Cys Val Gln Ala Glu Phe Phe Thr Ser Ile Gly His Met
20 25 30
Thr Asp Leu Ile Tyr Ala Glu Lys Glu Leu Val Gln Ser Leu Lys
35 40 45
Glu Tyr Ile Leu Val Glu Glu Ala Lys Leu Ser Lys Ile Lys Ser
50 55 60
Trp Ala Asn Lys Met Glu Ala Leu Thr Ser Lys Ser Ala Ala Asp
65 70 75
Ala Glu Gly Tyr Leu Ala His Pro Val Asn Ala Tyr Lys Leu Val
80 85 90
Lys Arg Leu Asn Thr Asp Trp Pro Ala Leu Glu Asp Leu Val Leu
95 100 105
Gln Asp Ser Ala Ala Gly Phe Ile Ala Asn Leu Ser Val Gln Arg
110 115 120
Gln Phe Phe Pro Thr Asp Glu Asp Glu Ile Gly Ala Ala Lys Ala
125 130 135
Leu Met Arg Leu Gln Asp Thr Tyr Arg Leu Asp Pro Gly Thr Ile
140 145 150
Ser Arg Gly Glu Leu Pro Gly Thr Lys Tyr Gln Ala Met Leu Ser
155 160 165
Val Asp Asp Cys Phe Gly Met Gly Arg Ser Ala Tyr Asn Glu Gly
170 175 180
Asp Tyr Tyr His Thr Val Leu Trp Met Glu Gln Val Leu Lys Gln
185 190 195
Leu Asp Ala Gly Glu Glu Ala Thr Thr Lys Ser Gln Val Leu
200 205 210
Asp Tyr Leu Ser Tyr Ala Val Phe Gln Leu Gly Asp Leu His Arg
215 220 225
Ala Leu Glu Leu Thr Arg Arg Leu Leu Ser Leu Asp Pro Ser His
230 235 240
Glu Arg Ala Gly Gly Asn Leu Arg Tyr Phe Glu Gln Leu Leu Glu
245 250 255
Glu Glu Arg Glu Lys Thr Leu Thr Asn Gln Thr Glu Ala Glu Leu
260 265 270
Ala Thr Pro Glu Gly Ile Tyr Glu Arg Pro Val Asp Tyr Leu Pro
275 280 285

P1618P2C3.txt

Glu Arg Asp Val Tyr Glu Ser Leu Cys Arg Gly Glu Gly Val Lys
290 295 300

Leu Thr Pro Arg Arg Gln Lys Arg Leu Phe Cys Arg Tyr His His
305 310 315

Gly Asn Arg Ala Pro Gln Leu Leu Ile Ala Pro Phe Lys Glu Glu
320 325 330

Asp Glu Trp Asp Ser Pro His Ile Val Arg Tyr Tyr Asp Val Met
335 340 345

Ser Asp Glu Glu Ile Glu Arg Ile Lys Glu Ile Ala Lys Pro Lys
350 355 360

Leu Ala Arg Ala Thr Val Arg Asp Pro Lys Thr Gly Val Leu Thr
365 370 375

Val Ala Ser Tyr Arg Val Ser Lys Ser Trp Leu Glu Glu Asp
380 385 390

Asp Asp Pro Val Val Ala Arg Val Asn Arg Arg Met Gln His Ile
395 400 405

Thr Gly Leu Thr Val Lys Thr Ala Glu Leu Leu Gln Val Ala Asn
410 415 420

Tyr Gly Val Gly Gly Gln Tyr Glu Pro His Phe Asp Phe Ser Arg
425 430 435

Arg Pro Phe Asp Ser Gly Leu Lys Thr Glu Gly Asn Arg Leu Ala
440 445 450

Thr Phe Leu Asn Tyr Met Ser Asp Val Glu Ala Gly Gly Ala Thr
455 460 465

Val Phe Pro Asp Leu Gly Ala Ala Ile Trp Pro Lys Lys Gly Thr
470 475 480

Ala Val Phe Trp Tyr Asn Leu Leu Arg Ser Gly Glu Gly Asp Tyr
485 490 495

Arg Thr Arg His Ala Ala Cys Pro Val Leu Val Gly Cys Lys Trp
500 505 510

Val Ser Asn Lys Trp Phe His Glu Arg Gly Gln Glu Phe Leu Arg
515 520 525

Pro Cys Gly Ser Thr Glu Val Asp
530

<210> 333

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

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<400> 333

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P1618P2C3.txt

<210> 334

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 334

ggacccttct gtgtgccag 19

<210> 335

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 335

ggtctcaaga actcctgtc 19

<210> 336

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 336

acactcagca ttgcctggta cttg 24

<210> 337

<211> 45

<212> DNA

<213> Artificial Sequence

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<223> Synthetic Oligonucleotide Probe

<400> 337

gggcacatga ctgacacctgat ttatgcagag aaagagctgg tgcag 45

<210> 338

<211> 2789

<212> DNA

<213> Homo Sapien

<400> 338

gcagtattga gttttacttc ctcccttttt tagtggaaaga cagaccataa 50

tcccaagtgtg agtcaaattt attgtttcat ttattaccgt tttggctggg 100

ggtttagttcc gacacccatca cagttgaaga gcaggcagaa ggagttgtga 150

agacaggaca atcttcttgg ggatgctggt cctggaagcc agcgggcatt 200

gctctgtctt tggcctcatt gaccccgagg tctctggta aaactgaaag 250

cctactactg gcctgggcc catcaatcca ttgatccttgg aggctgtgcc 300

cctggggcac ccacccatggca gggcctacca ccatgcgact gagctccctg 350

P1618P2C3.txt

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agctggtgct gccactcctg gtggctgaag ctgctgcagc cccggctttc 1850
ctcgaggcgt ttgcagccaa tgcctggag ccacgagaac atgcattgct 1900

P1618P2C3.txt

caccctgttg ctggtctacg ggccacgaga aggtggccgt ggagctccag 1950
acccatttct tggggtaag gctgcagcag cgagataga gcgacggtag 2000
cctgggacga ggctggcctg gctcgctgtg cgagcagagg ccccttccca 2050
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tcttccttac caccgtgtgg acaaggcctg ggcccgaaatg cctcaaccgc 2150
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gcccgccctgg gggccctaac ctcattacct ttccttgctc tgccctcagcc 2700
ccaggaaggg caaggcaaga tggtgacag atagagaatt gttgctgtat 2750
tttttaataaataaataatggtt attaaacatg tcttctgccc 2789

<210> 339

<211> 772

<212> PRT

<213> Homo Sapien

<400> 339

Met Arg Leu Ser Ser Leu Leu Ala Leu Leu Arg Pro Ala Leu Pro
1 5 10 15

Leu Ile Leu Gly Leu Ser Leu Gly Cys Ser Leu Ser Leu Leu Arg
20 25 30

Val Ser Trp Ile Gln Gly Glu Gly Glu Asp Pro Cys Val Glu Ala
35 40 45

Val Gly Glu Arg Gly Gly Pro Gln Asn Pro Asp Ser Arg Ala Arg
50 55 60

Leu Asp Gln Ser Asp Glu Asp Phe Lys Pro Arg Ile Val Pro Tyr
65 70 75

Tyr Arg Asp Pro Asn Lys Pro Tyr Lys Lys Val Leu Arg Thr Arg
80 85 90

Tyr Ile Gln Thr Glu Leu Gly Ser Arg Glu Arg Leu Leu Val Ala
95 100 105

P1618P2C3.txt

Val Leu Thr Ser Arg Ala Thr Leu Ser Thr Leu Ala Val Ala Val
 110 115 120
 Asn Arg Thr Val Ala His His Phe Pro Arg Leu Leu Tyr Phe Thr
 125 130 135
 Gly Gln Arg Gly Ala Arg Ala Pro Ala Gly Met Gln Val Val Ser
 140 145 150
 His Gly Asp Glu Arg Pro Ala Trp Leu Met Ser Glu Thr Leu Arg
 155 160 165
 His Leu His Thr His Phe Gly Ala Asp Tyr Asp Trp Phe Phe Ile
 170 175 180
 Met Gln Asp Asp Thr Tyr Val Gln Ala Pro Arg Leu Ala Ala Leu
 185 190 195
 Ala Gly His Leu Ser Ile Asn Gln Asp Leu Tyr Leu Gly Arg Ala
 200 205 210
 Glu Glu Phe Ile Gly Ala Gly Glu Gln Ala Arg Tyr Cys His Gly
 215 220 225
 Gly Phe Gly Tyr Leu Leu Ser Arg Ser Leu Leu Leu Arg Leu Arg
 230 235 240
 Pro His Leu Asp Gly Cys Arg Gly Asp Ile Leu Ser Ala Arg Pro
 245 250 255
 Asp Glu Trp Leu Gly Arg Cys Leu Ile Asp Ser Leu Gly Val Gly
 260 265 270
 Cys Val Ser Gln His Gln Gly Gln Gln Tyr Arg Ser Phe Glu Leu
 275 280 285
 Ala Lys Asn Arg Asp Pro Glu Lys Glu Gly Ser Ser Ala Phe Leu
 290 295 300
 Ser Ala Phe Ala Val His Pro Val Ser Glu Gly Thr Leu Met Tyr
 305 310 315
 Arg Leu His Lys Arg Phe Ser Ala Leu Glu Leu Glu Arg Ala Tyr
 320 325 330
 Ser Glu Ile Glu Gln Leu Gln Ala Gln Ile Arg Asn Leu Thr Val
 335 340 345
 Leu Thr Pro Glu Gly Glu Ala Gly Leu Ser Trp Pro Val Gly Leu
 350 355 360
 Pro Ala Pro Phe Thr Pro His Ser Arg Phe Glu Val Leu Gly Trp
 365 370 375
 Asp Tyr Phe Thr Glu Gln His Thr Phe Ser Cys Ala Asp Gly Ala
 380 385 390
 Pro Lys Cys Pro Leu Gln Gly Ala Ser Arg Ala Asp Val Gly Asp
 395 400 405
 Ala Leu Glu Thr Ala Leu Glu Gln Leu Asn Arg Arg Tyr Gln Pro
 410 415 420

P1618P2C3.txt

Arg Leu Arg Phe Gln Lys Gln Arg Leu Leu Asn Gly Tyr Arg Arg
425 430 435
Phe Asp Pro Ala Arg Gly Met Glu Tyr Thr Leu Asp Leu Leu Leu
440 445 450
Glu Cys Val Thr Gln Arg Gly His Arg Arg Ala Leu Ala Arg Arg
455 460 465
Val Ser Leu Leu Arg Pro Leu Ser Arg Val Glu Ile Leu Pro Met
470 475 480
Pro Tyr Val Thr Glu Ala Thr Arg Val Gln Leu Val Leu Pro Leu
485 490 495
Leu Val Ala Glu Ala Ala Ala Ala Pro Ala Phe Leu Glu Ala Phe
500 505 510
Ala Ala Asn Val Leu Glu Pro Arg Glu His Ala Leu Leu Thr Leu
515 520 525
Leu Leu Val Tyr Gly Pro Arg Glu Gly Gly Arg Gly Ala Pro Asp
530 535 540
Pro Phe Leu Gly Val Lys Ala Ala Ala Ala Glu Leu Glu Arg Arg
545 550 555
Tyr Pro Gly Thr Arg Leu Ala Trp Leu Ala Val Arg Ala Glu Ala
560 565 570
Pro Ser Gln Val Arg Leu Met Asp Val Val Ser Lys Lys His Pro
575 580 585
Val Asp Thr Leu Phe Phe Leu Thr Thr Val Trp Thr Arg Pro Gly
590 595 600
Pro Glu Val Leu Asn Arg Cys Arg Met Asn Ala Ile Ser Gly Trp
605 610 615
Gln Ala Phe Phe Pro Val His Phe Gln Glu Phe Asn Pro Ala Leu
620 625 630
Ser Pro Gln Arg Ser Pro Pro Gly Pro Pro Gly Ala Gly Pro Asp
635 640 645
Pro Pro Ser Pro Pro Gly Ala Asp Pro Ser Arg Gly Ala Pro Ile
650 655 660
Gly Gly Arg Phe Asp Arg Gln Ala Ser Ala Glu Gly Cys Phe Tyr
665 670 675
Asn Ala Asp Tyr Leu Ala Ala Arg Ala Arg Leu Ala Gly Glu Leu
680 685 690
Ala Gly Gln Glu Glu Glu Ala Leu Glu Gly Leu Glu Val Met
695 700 705
Asp Val Phe Leu Arg Phe Ser Gly Leu His Leu Phe Arg Ala Val
710 715 720
Glu Pro Gly Leu Val Gln Lys Phe Ser Leu Arg Asp Cys Ser Pro
725 730 735

P1618P2C3.txt

Arg Leu Ser Glu Glu Leu Tyr His Arg Cys Arg Leu Ser Asn Leu
740 745 750

Glu Gly Leu Gly Gly Arg Ala Gln Leu Ala Met Ala Leu Phe Glu
755 760 765

Gln Glu Gln Ala Asn Ser Thr
770

<210> 340

<211> 1572

<212> DNA

<213> Homo Sapien

<400> 340

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cttttgaag ggtgtgatgc ttgaaagcat tttctgtgct ttgatcacta 150
tgcttaggaca cattaggatt ggtcatggaa atagaatgca ccaccatgag 200
catcatcacc tacaagctcc taacaaagaa gatatcttga aaatttcaga 250
ggatgagcgc atggagctca gtaagagctt tcgagtatac tgtattatcc 300
ttgtaaaacc caaagatgtg agtctttggg ctgcagtaaa ggagacttgg 350
accaaacact gtgacaaagc agagttcttc agttctgaaa atgttaaagt 400
gtttgagtca attaatatgg acacaaatga catgtggtta atgatgagaa 450
aagcttacaa atacgcctt gataagtata gagaccaata caactggttc 500
ttccttgacac gccccactac gtttgcatac attgaaaacc taaagtatcc 550
tttgttaaaa aaggatccat cacagcctt ctatcttagc cacactataa 600
aatctggaga ccttgaatat gtgggtatgg aaggaggaat tgtcttaagt 650
gtagaatcaa tgaaaagact taacagcctt ctcaatatcc cagaaaagtg 700
tcctgaacag ggagggatga tttggaagat atctgaagat aaacagctag 750
cagttgcct gaaatatgct ggagtattt cagaaaatgc agaagatgct 800
gatggaaaag atgtatttaa taccaaatct gttggcttt ctattaaaga 850
ggcaatgact tattcacccca accaggtgt agaaggctgt ttttcagata 900
tggctgttac ttttaatggc ctgactccaa atcagatgca tgtgtatgatg 950
tatgggtat accgccttag ggcatttggg catatttca atgatgcatt 1000
gttttctta cctccaaatg gttctgacaa tgactgagaa gtggtagaaa 1050
agcgtgaata tgatcttgc ataggacgtg ttttcattt attttagtta 1100
gtaactacat atccaaataca gctgtatgtt tcttttctt ttctaaatgg 1150
gtggcactgg tataaccaca cattaaagtc agtagtacat ttttaatgg 1200

P1618P2C3.txt

gggtggttt tttcttaaa acacatgaac attgtaatg tggtggaaag 1250
aagtgttta agaataataa tttgcaaat aaactattaa taaatattat 1300
atgtgataaa ttctaaatta tgaacattag aaatctgtgg ggcacatatt 1350
tttgctgatt ggtaaaaaa tttaacagg tcttagcgt tctaagatat 1400
gcaaatgata tctctagttg tgaatttgcg attaaagtaa aacttttagc 1450
tgtgtgtcc ctttacttct aatactgatt tatgttctaa gcctccccaa 1500
gttccaatgg atttgccttc tcaaaatgta caactaagca actaaagaaa 1550
attaaagtga aagttgaaaa at 1572

<210> 341
<211> 318
<212> PRT
<213> Homo Sapien

<400> 341
Met Leu Ser Glu Ser Ser Phe Leu Lys Gly Val Met Leu Gly
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Ser Ile Phe Cys Ala Leu Ile Thr Met Leu Gly His Ile Arg Ile
20 25 30
Gly His Gly Asn Arg Met His His Glu His His His Leu Gln
35 40 45
Ala Pro Asn Lys Glu Asp Ile Leu Lys Ile Ser Glu Asp Glu Arg
50 55 60
Met Glu Leu Ser Lys Ser Phe Arg Val Tyr Cys Ile Ile Leu Val
65 70 75
Lys Pro Lys Asp Val Ser Leu Trp Ala Ala Val Lys Glu Thr Trp
80 85 90
Thr Lys His Cys Asp Lys Ala Glu Phe Phe Ser Ser Glu Asn Val
95 100 105
Lys Val Phe Glu Ser Ile Asn Met Asp Thr Asn Asp Met Trp Leu
110 115 120
Met Met Arg Lys Ala Tyr Lys Tyr Ala Phe Asp Lys Tyr Arg Asp
125 130 135
Gln Tyr Asn Trp Phe Phe Leu Ala Arg Pro Thr Thr Phe Ala Ile
140 145 150
Ile Glu Asn Leu Lys Tyr Phe Leu Leu Lys Lys Asp Pro Ser Gln
155 160 165
Pro Phe Tyr Leu Gly His Thr Ile Lys Ser Gly Asp Leu Glu Tyr
170 175 180
Val Gly Met Glu Gly Gly Ile Val Leu Ser Val Glu Ser Met Lys
185 190 195
Arg Leu Asn Ser Leu Leu Asn Ile Pro Glu Lys Cys Pro Glu Gln
200 205 210

P1618P2C3.txt

Gly Gly Met Ile Trp Lys Ile Ser Glu Asp Lys Gln Leu Ala Val
215 220 225
Cys Leu Lys Tyr Ala Gly Val Phe Ala Glu Asn Ala Glu Asp Ala
230 235 240
Asp Gly Lys Asp Val Phe Asn Thr Lys Ser Val Gly Leu Ser Ile
245 250 255
Lys Glu Ala Met Thr Tyr His Pro Asn Gln Val Val Glu Gly Cys
260 265 270
Cys Ser Asp Met Ala Val Thr Phe Asn Gly Leu Thr Pro Asn Gln
275 280 285
Met His Val Met Met Tyr Gly Val Tyr Arg Leu Arg Ala Phe Gly
290 295 300
His Ile Phe Asn Asp Ala Leu Val Phe Leu Pro Pro Asn Gly Ser
305 310 315
Asp Asn Asp

<210> 342
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 342
tccccaaagcc gttctagacg cg 23

<210> 343
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 343
ctggttcttc cttgcacg 18

<210> 344
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 344
gcccaaatgc cctaaggcgg tatacccc 28

<210> 345
<211> 50
<212> DNA
<213> Artificial Sequence

P1618P2C3.txt

<220>
<223> Synthetic oligonucleotide Probe

<400> 345
gggtgtgatg cttggaagca ttttctgtgc tttgatcaact atgctaggac 50

<210> 346
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 346
gggatgcagg tggtgtctca tgggg 25

<210> 347
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 347
ccctcatgtta ccggctcc 18

<210> 348
<211> 48
<212> DNA
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<220>
<223> Synthetic oligonucleotide Probe

<400> 348
ggattctaat acgactcaact ataggctca gaaaagcgca acagagaa 48

<210> 349
<211> 47
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 349
ctatgaaatt aaccctcaact aaaggatgt cttccatgcc aaccttc 47

<210> 350
<211> 48
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<220>
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<400> 350
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<210> 351
<211> 48

P1618P2C3.txt

<212> DNA
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<220>
<223> Synthetic oligonucleotide Probe

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<210> 352
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
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<400> 352
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<210> 353
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 353
ctatgaaatt aaccctcaact aaagggacgg gggacaccac ggaccaga 48

<210> 354
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
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<400> 354
ggattctaat acgactcaact atagggcttg ctgcggttt tggccttg 48

<210> 355
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide Probe

<400> 355
ctatgaaatt aaccctcaact aaagggagct gccgatccc ctggatt 48

<210> 356
<211> 46
<212> DNA
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<220>
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<400> 356
ggattctaat acgactcaact atagggcgga tcctggccgg cctctg 46

P1618P2C3.txt

<210> 357
<211> 48
<212> DNA
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<400> 357
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<210> 358
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 358
ggattctaat acgactcaact atagggcggg aagatggcga ggaggag 47

<210> 359
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
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<400> 359
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<210> 360
<211> 48
<212> DNA
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<220>
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<400> 360
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<210> 361
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 361
ctatgaaatt aaccctcaact aaagggaggg tacaattaag gggtggat 48

<210> 362
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

P1618P2C3.txt

<400> 362
ggattctaat acgactcact atagggcccg cctcgctcct gctcctg 47

<210> 363
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 363
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<210> 364
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 364
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<210> 365
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 365
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<210> 366
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 366
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<210> 367
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 367
ctatgaaatt aaccctcact aaagggacag acggggcaga gggagtg 47

<210> 368
<211> 47
<212> DNA
<213> Artificial Sequence

P1618P2C3.txt

<220>
<223> Synthetic Oligonucleotide Probe

<400> 368
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<210> 369
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 369
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<210> 370
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
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<400> 370
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<210> 371
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 371
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<210> 372
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 372
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<210> 373
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 373
ctatgaaatt aaccctcact aaaggagta agggatgcc accgagta 48

<210> 374

P1618P2C3.txt

<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 374
ggattctaat acgactcaact atagggccag ctacccgcag gaggagg 47

<210> 375
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide Probe

<400> 375
ctatgaaatt aaccctcaact aaagggatcc caggtgatga ggtccaga 48

<210> 376
<211> 997
<212> DNA
<213> Homo Sapien

<400> 376
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agggagggag agaaaaagag agagagagaa acaaaaaacc aaagagagag 100
aaaaaaatgaa ttcatctaaa tcacatctgaaa cacaatgcac agagagagga 150
tgcttctctt cccaaatgtt cttatggact gttgctggga tccccatcct 200
atttctcagt gcctgttca tcaccagatg tggatgtgaca tttcgcatct 250
ttcaaaacctg tggatgagaaa aagtttcagc tacctgagaa tttcacagag 300
ctctcctgct acaattatgg atcaggttca gtcaagaatt gttgtccatt 350
gaactggaa tattttcaat ccagctgcta cttctttctt actgacacca 400
tttcctggc gttaaaggaaa aagaactgct cagccatggg ggctcacctg 450
gtggttatca actcacagga ggagcaggaa ttcctttctt acaagaaacc 500
taaaatgaga gagttttta ttggactgtc agaccaggaa gtcgagggtc 550
agtggcaatg ggtggacggc acaccttga caaagtctct gagttctgg 600
gatgttagggg agcccaacaa catagctacc ctggaggact gtgccaccat 650
gagagactct tcaaacccaa ggcaaaatttga gaatgtatgtaa acctgtttcc 700
tcaattatgtt tcggatttgc gaaatggtag gaataaatcc tttgaacaaa 750
ggaaaaatctc tttaagaaca gaaggcacaa ctcaaatgtg taaaagaagga 800
agagcaagaa catggccaca cccaccgccc cacacgagaa atttgcgc 850
tgaacttcaa aggacttcat aagtattgt tactctgata caaataaaaa 900

P1618P2C3.txt

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaa 997

<210> 377

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<213> Homo Sapien

<400> 377

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Cys Phe Ser Ser Gln Met Phe Leu Trp Thr Val Ala Gly Ile Pro
20 25 30

Ile Leu Phe Leu Ser Ala Cys Phe Ile Thr Arg Cys Val Val Thr
35 40 45

Phe Arg Ile Phe Gln Thr Cys Asp Glu Lys Lys Phe Gln Leu Pro
50 55 60

Glu Asn Phe Thr Glu Leu Ser Cys Tyr Asn Tyr Gly Ser Gly Ser
65 70 75

Val Lys Asn Cys Cys Pro Leu Asn Trp Glu Tyr Phe Gln Ser Ser
80 85 90

Cys Tyr Phe Phe Ser Thr Asp Thr Ile Ser Trp Ala Leu Ser Leu
95 100 105

Lys Asn Cys Ser Ala Met Gly Ala His Leu Val Val Ile Asn Ser
110 115 120

Gln Glu Glu Gln Glu Phe Leu Ser Tyr Lys Lys Pro Lys Met Arg
125 130 135

Glu Phe Phe Ile Gly Leu Ser Asp Gln Val Val Glu Gly Gln Trp
140 145 150

Gln Trp Val Asp Gly Thr Pro Leu Thr Lys Ser Leu Ser Phe Trp
155 160 165

Asp Val Gly Glu Pro Asn Asn Ile Ala Thr Leu Glu Asp Cys Ala
170 175 180

Thr Met Arg Asp Ser Ser Asn Pro Arg Gln Asn Trp Asn Asp Val
185 190 195

Thr Cys Phe Leu Asn Tyr Phe Arg Ile Cys Glu Met Val Gly Ile
200 205 210

Asn Pro Leu Asn Lys Gly Lys Ser Leu
215

<210> 378

<211> 21

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<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

P1618P2C3.txt

<400> 378
ttcagcttct gggatgttagg g 21

<210> 379
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<400> 379
tattcctacc atttcacaaa tccg 24

<210> 380
<211> 49
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<220>
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ggaggactgt gccaccatga gagactttc aaacccaagg caaaattgg 49

<210> 381
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<220>
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<400> 381
gcagatttg aggacagcca cctcca 26

<210> 382
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<220>
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<400> 382
ggccttgcag acaaccgt 18

<210> 383
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cagactgagg gagatccgag a 21

<210> 384
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P1618P2C3.txt

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cacaaactcg aactgcttct g 21

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<220>
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<400> 387
gggccatcac agctccct 18

<210> 388
<211> 22
<212> DNA
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<220>
<223> Synthetic oligonucleotide probe

<400> 388
gggatgtggt gaacacagaa ca 22

<210> 389
<211> 22
<212> DNA
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<220>
<223> Synthetic oligonucleotide probe

<400> 389
tgccagctgc atgctgccag tt 22

<210> 390
<211> 20

P1618P2C3.txt

<212> DNA
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<220>
<223> Synthetic oligonucleotide probe

<400> 390
cagaaggatg tcccggtggaa 20

<210> 391
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 391
gccgcgtgtcc actgcag 17

<210> 392
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 392
gacggcatcc tcagggccac a 21

<210> 393
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 393
atgtccctcca tgcccacgcg 20

<210> 394
<211> 20
<212> DNA
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<220>
<223> Synthetic oligonucleotide probe

<400> 394
gagtgcgaca tcgagagctt 20

<210> 395
<211> 18
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<220>
<223> Synthetic oligonucleotide probe

<400> 395
ccgcagcctc agtgtatga 18

P1618P2C3.txt

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<400> 396
gaagagcaca gctgcagatc c 21

<210> 397
<211> 22
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<220>
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<400> 397
gaggtgtcct ggctttggta gt 22

<210> 398
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 398
cctctggcgc ccccactcaa 20

<210> 399
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<220>
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<400> 399
ccaggagagc tggcgatg 18

<210> 400
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 400
gcaaattcag ggctcactag aga 23

<210> 401
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

P1618P2C3.txt

<400> 401
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<210> 402
<211> 22
<212> DNA
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<220>
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<400> 402
ggcagagact tccagtcact ga 22
<210> 403
<211> 22
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<220>
<223> Synthetic oligonucleotide probe

<400> 403
gccaagggtg gtgttagata gg 22
<210> 404
<211> 24
<212> DNA
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<220>
<223> Synthetic oligonucleotide probe

<400> 404
caggccccct tcatctgtac ccca 24
<210> 405
<211> 23
<212> DNA
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<220>
<223> Synthetic oligonucleotide probe

<400> 405
gggacgtgct tctacaagaa cag 23
<210> 406
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 406
caggcttaca atgttatgtat cagaca 26
<210> 407
<211> 31
<212> DNA
<213> Artificial Sequence

P1618P2C3.txt

<220>
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<400> 407
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<210> 408
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<220>
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<400> 408
tctacatcgag cctctctgcg c 21

<210> 409
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<220>
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<400> 409
cgatcttctc cacccaggag cg 23

<210> 410
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<400> 410
gccaggccctc acattcgt 18

<210> 411
<211> 23
<212> DNA
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<220>
<223> Synthetic oligonucleotide probe

<400> 411
ctccctgaat ggcagccctga gca 23

<210> 412
<211> 24
<212> DNA
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<220>
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<400> 412
agggttttat taagggccta cgct 24

<210> 413

P1618P2C3.txt

<211> 19
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<220>
<223> Synthetic oligonucleotide probe

<400> 413
cagagcagag ggtgccttg 19

<210> 414
<211> 21
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<220>
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<400> 414
tggcggagtc ccctcttggc t 21

<210> 415
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<220>
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<400> 415
ccctgttcc ctatgcatca ct 22

<210> 416
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tcaacccctg accctttcct a 21

<210> 417
<211> 24
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<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide probe

<400> 417
ggcagggggac aagccatctc tcct 24

<210> 418
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<212> DNA
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<223> Synthetic oligonucleotide probe

<400> 418

P1618P2C3.txt

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gggccttaac ctcattacct tt 22

<210> 420
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<400> 420
tgtctgcctc agccccagga agg 23

<210> 421
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<220>
<223> Synthetic oligonucleotide probe

<400> 421
tctgtccacc atcttgccctt g 21

<210> 422
<211> 3554
<212> DNA
<213> Homo Sapien

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cttcttcctg ctgctgcttt tcagggctg cctgataggg gctgtaaatc 150
tcaaatccag caatcgAACCC ccagtggtaC aggaatttga aagtgtggaa 200
ctgtcttgca tcattacgga ttgcagaca agtgacccca ggatcgagtg 250
gaagaaaattt caagatgaac aaaccacata tgtgtttttt gacaacaaaa 300
ttcagggaga cttggcggtt cgtgcagaaa tactggggaa gacatccctg 350
aagatctgga atgtgacacg gagagactca gcccTTTATC gctgtgaggt 400
cgttgctcga aatgaccgca aggaaattga tgagattgtg atcgagttaa 450
ctgtgcaagt gaagccagtg acccctgtct gtagagtgcc gaaggctgta 500
ccagtaggca agatggcaac actgcactgc caggagagtg agggccaccc 550

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gcctcttcct gagatgacta ggacagtctg taccaggagg ccacccagaa 2150

P1618P2C3.txt

gcctcagat gtacatacac agatgccagt cagctcctgg ggttgcgcca 2200
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gcctttggat ggatgttgct gtacacagat gctacagact tgtactaaca 3500
caccgttaatt tggcatttgt ttaacctcat ttataaaaagc ttcaaaaaaa 3550
ccca 3554

<210> 423
<211> 310
<212> PRT
<213> Homo Sapien

P1618P2C3.txt

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Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu
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20 25 30

Ala Val Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu
35 40 45

Phe Glu Ser Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr
50 55 60

Ser Asp Pro Arg Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr
65 70 75

Thr Tyr Val Phe Phe Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly
80 85 90

Arg Ala Glu Ile Leu Gly Lys Thr Ser Leu Lys Ile Trp Asn Val
95 100 105

Thr Arg Arg Asp Ser Ala Leu Tyr Arg Cys Glu Val Val Ala Arg
110 115 120

Asn Asp Arg Lys Glu Ile Asp Glu Ile Val Ile Glu Leu Thr Val
125 130 135

Gln Val Lys Pro Val Thr Pro Val Cys Arg Val Pro Lys Ala Val
140 145 150

Pro Val Gly Lys Met Ala Thr Leu His Cys Gln Glu Ser Glu Gly
155 160 165

His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn Asp Val Pro Leu
170 175 180

Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn Ser Ser Phe
185 190 195

His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala Val His
200 205 210

Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp Ala
215 220 225

Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu
230 235 240

Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val
245 250 255

Leu Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly
260 265 270

Tyr Phe Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro
275 280 285

Gly Lys Pro Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly
290 295 300

Asp Phe Arg His Lys Ser Ser Phe Val Ile

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<220>
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<221> Artificial Sequence
<222> 1, 4, 6, 8, 10, 12, 14, 16
<223> Artificial Sequence

<220>
<221> unsure
<222> 9, 11, 13, 15, 17
<223> unknown amino acid

<400> 424
Xaa Asn Cys Xaa Cys Xaa . Cys Xaa Cys Xaa Cys Xaa Gly Xaa
1 5 10 15
Cys Xaa Asn